

# COMPUTING RESEARCH NEWS



Computing Research Association  
Uniting Industry, Academia and Government to  
Advance Computing Research and Change the World.

NOVEMBER 2020 Vol. 32 / No. 10



## CRN At-A-Glance

### CRA Releases '2020 Quadrennial Papers' Focused on Illuminating Computing Research Challenges and Opportunities for the Next Four Years

The Computing Research Association (CRA) recently released the first of more than a dozen planned white papers produced through its subcommittees, exploring areas and issues around computing research with the potential to address national priorities over the next four years. Called *Quadrennial Papers*, the white papers attempt to portray a broad picture of computing research detailing potential research directions, challenges, and recommendations for policymakers and the computing research community. The release of the 2020 Quadrennial Papers covers five thematic areas: Core Computer Science, Broad Computing, Socio-Technical Computing, Artificial Intelligence, and Diversity & Education.

See page 2 for full article.

### Are You Working on the Taulbee Survey?

The CRA Taulbee Survey is in progress.

The deadline for the salary section is **November 24**.

**Late December:** Preliminary salary report available to participants.

**January 20, 2021:** Due date for the main Taulbee section.

## Upcoming Deadlines

January 15	<i>Distinguished Service Award</i>
January 15	<i>A. Nico Habermann Award</i>
November 20	<i>CRA-E Undergraduate Research Faculty Mentoring Award</i>
November 30	2021 <i>Grad Cohort for Women Application</i> Deadline
November 30	2021 <i>Grad Cohort for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills - The IDEALS Workshop Application</i> Deadline

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# CRA Releases ‘2020 Quadrennial Papers’ Focused on Illuminating Computing Research Challenges and Opportunities for the Next Four Years



The Computing Research Association (CRA) recently released the first of more than a dozen planned white papers produced through its subcommittees, exploring areas and issues around computing research with the potential to address national priorities over the next four years. Called *Quadrennial Papers*, the white papers attempt to portray a broad picture of computing research detailing potential research directions, challenges, and recommendations for policymakers and the computing research community. The release of the 2020 Quadrennial Papers covers five thematic areas: Core Computer Science, Broad Computing, Socio-Technical Computing, Artificial Intelligence, and Diversity & Education.

CRA today released the first set of four papers from the Core Computer Science theme, papers that explore [the foundations of our algorithmic world through theoretical computer science](#), ponder [computing challenges in the post-Moore’s Law world](#), address the [opportunities with next generation wireless technologies](#), and prepare us for [the challenges of security in a post-quantum computing world](#). Over the next several weeks, CRA will release papers in the four other thematic sets.

The Quadrennial Papers are a part of CRA’s mission to catalyze the computing community to advance future research directions in the field. CRA’s [Computing Community Consortium](#) subcommittee (CCC), [Committee on Widening Participation in Computing Research](#) (CRA-WP), and [Education](#) subcommittee (CRA-E), all contributed white papers to the effort. The topics chosen represent areas of mutual interest among the committee members spanning various subdisciplines of computing research.

CRA, primarily through the CCC, has been [producing these white papers](#) every four years since 2008 on topics as wide-ranging as Robotics and Synthetic Biology to Intelligent Infrastructure and the Internet of Things. The papers have frequently had notable impact, including helping motivate a re-envisioning of DARPA, establishing the need for a Big Data Initiative, buttressing support for a National Robotics Initiative, and laying the groundwork for an Artificial Intelligence Research Roadmap. Contributors have included members of CRA committees, as well as experts in academia and industry inside and outside the computing research community.

CRA thanks all those authors, contributors and reviewers who were part of the effort to bring these papers to fruition. As each of the 2020 Quadrennial papers is released, it will be available at <https://cra.org/cra-quadrennial-papers/>.

# CCC Quadrennial Papers: Core Computer Science



*By CCC Staff*

As part of the rollout of the 2020 CRA Quadrennial Papers, the **Computing Community Consortium** (CCC) is pleased to publish the first four papers around the “Core Computer Science” theme, including papers on post quantum cryptography, the foundations of our algorithmic world, opportunities with next generation wireless technologies and computing challenges in the post-Moore’s Law world. The Quadrennial Papers are intended to help inform the computing research community and those who craft science policy about opportunities in computing research to help address national priorities. As part of CCC’s contribution, in addition to the theme of Core Computer Science, we will be releasing three additional sets of Quadrennial Papers over the next several weeks, including ones organized around themes of Broad Computing, Artificial Intelligence, and Socio-Technical Computing. The overall **Computing Research Association effort** includes contributions around the theme of Diversity and Education from our colleagues on CRA’s **Committee on Widening Participation in Computing Research** (CRA-WP) and **CRA’s Committee on Education** (CRA-E).

As a field, computer science is always on the cusp of what comes next. Before we can take this next step, it is critical to make sure the foundation is solid and that the hardware and software we have now will be able to sustain and support this next generation of technology. The series of papers, ‘Core Computer Science’, takes a look at what needs to be done as a field to prepare for the future of computing research in Post Quantum Cryptography, Theory, Wireless Networking and Post-Moore’s Law to ensure CS has a strong enough foundation to carry our visions to realization.

Brief descriptions, author details, and links to the Quadrennial Papers released today are included below. We will announce future releases here in the coming days and weeks. For a complete list and brief descriptions of upcoming releases, check the **CRA Quadrennial Papers** page. All the CCC-contributed papers can also be found on the **CCC-led White Papers** page.

## **Post Quantum Cryptography: Readiness Challenges and the Approaching Storm**

*Authors: Matt Campagna (Amazon), Brian LaMacchia (Microsoft Research), and David Ott (VMware Research)*

Few people are aware that each advancement we make in quantum computing brings us closer to a complete breakdown of our digital security and privacy. As quantum-driven advancements in cryptographic analysis and computing technology are achieved, the cryptographic algorithms that protect our private online information and data is threatened. This paper identifies issues that need to be addressed before the quantum transition, particularly in identifying a replacement for current cryptography algorithms and ensuring a safe transition of uses.

## **Theoretical Computer Science: Foundations for an Algorithmic World**

*Authors: Shuchi Chawla (University of Wisconsin-Madison), Jelani Nelson (UC Berkeley), Chris Umans (California Institute of Technology), and David Woodruff (Carnegie Mellon University)*

This paper presents the case for robust support of research and funding of foundational work in Theoretical Computer Science (TCS), highlighting three major areas of current interest in the field. Work in this discipline benefits the entire field of computer science by offering insights to the possibilities and limitations of computation, identifying key issues in new areas and discerning computation and algorithms in settings beyond computer science.



## Core Computer Science *(continued)*

### Computing Research Challenges in Next Generation Wireless Networking

*Authors: Elisa Bertino (Purdue University), Daniel Bliss (Arizona State University), Daniel Lopresti (Lehigh University), Larry Peterson (Princeton University), and Henning Schulzrinne (Columbia University)*

Wireless networking has seen explosive growth over the past decade and continues to evolve rapidly. Cellular technology is now progressing from 4G and its potential for broadband speeds to mobile devices, to 5G which will further enhance transmission speeds, cell capacity, and latency through the use of different radio technologies. 6G is already envisioned to employ virtualization across all layers and the pervasive deployment of AI. On the hardware side, new classes of highly flexible application specific processors (ASICs) are being developed, driving further progress. In addition, deep programmability will open up enormous opportunities to manage the complexity and harness the power of the new network infrastructure. This paper explores these key technologies and outlines a research agenda to make them a reality.

### Advancing Computing's Foundation of US Industry & Society

*Authors: Thomas Conte (Georgia Institute of Technology), Ian Foster (University of Chicago), William Gropp (University of Illinois at Urbana-Champaign), and Mark Hill (University of Wisconsin-Madison)*

As the 55-year reign of Moore's Law comes to an end, new computing techniques will be required in order to continue the improvement of computer speed and performance. This paper outlines a number of techniques that will lead to advancements in the computing field and benefits society as a whole.

# CCC Quadrennial Papers: Broad Computer Science



CCC

Computing Community Consortium  
Catalyst

*By CCC Staff*

As part of the rollout of the **2020 Computing Research Association's (CRA) Quadrennial Papers**, the **Computing Community Consortium (CCC)** is pleased to publish the second group of papers around "Broad Computer Science," including papers on pandemic informatics, infrastructure for AI, High Performance Computing (HPC) and Quantum, robotics in the workforce and a new research ecosystem for secure computing. The Quadrennial Papers are intended to help inform the computing research community and those who craft science policy about opportunities in computing research to help address national priorities. As part of CCC's contribution, in addition to the theme of **Core Computer Science** from last week, two more sets of Quadrennial Papers organized around the themes of Artificial Intelligence and Socio-Technical Computing will be released over the next several weeks.

The papers we release today touch on the potential for the broad application of computing to societal issues and on the conduct of science itself. From exploring effective strategies for using computation to impact pandemics, to understanding how robotics can augment the workforce, to capitalizing on the synergies between breakthrough computing technologies and infrastructures to catalyze progress in science, and creating a new research ecosystem that prioritizes security, these papers show the broad range of impact our field continues to have on discovery, society and our daily lives. Brief descriptions, author details, and links to the Quadrennial Papers released today are included below.

## **Pandemic Informatics: Preparation, Robustness and Resilience**

*Authors: Elizabeth Bradley (University of Colorado Boulder), William Gropp (University of Illinois at Urbana-Champaign), Daniel Lopresti (Lehigh University), Madhav Marathe (University of Virginia), and Melanie Moses (University of New Mexico)*

In light of the recent pandemic, this paper outlines an effective strategy to reduce the impact of global pandemics stressing early detection, predicting the public's reaction and developing effective policies. These aims require research and technological advancements in a number of areas, particularly in how informatics infrastructure can be used to assist in global outbreaks and better prepare for the next health crisis.

## **Infrastructure for Artificial Intelligence, Quantum and High Performance Computing**

*Authors: Sujata Banerjee (VMware Research), Ian Foster (University of Chicago), and William Gropp (University of Illinois at Urbana-Champaign)*

This paper breaks down the barriers separating AI, Quantum, and High Performance Computing (HPC). It calls for combining resources to support these critical areas, and highlights synergies between them. The goal is to bridge current gaps between these three areas and use the infrastructure from one discipline to catalyze progress in another.



## Broad Computer Science *(continued)*

### **Robotics Enabling the Workforce**

*Authors: Henrik Christensen (University of California, San Diego), Maria Gini (University of Minnesota), Odest Chadwicke Jenkins (University of Michigan), and Holly Yanco (University of Massachusetts, Lowell)*

This paper portrays how robotics can aid and leverage the workforce by increasing automation and providing new opportunities for workers. It outlines necessary investments in research, technology development, education, training and policy, but most critically, we need research to understand how future robot technologies can compliment our workforce to get the best of both human and automated labor.

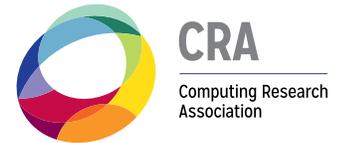
### **A Research Ecosystem for Secure Computing**

*Authors: Nadya Bliss (Arizona State University), Lawrence A. Gordon (University of Maryland), Daniel Lopresti (Lehigh University), Fred Schneider (Cornell University), and Suresh Venkatasubramanian (University of Utah)*

In today's world tech developers are more focused on the capabilities of the technology rather than the security. This paper stresses the importance of prioritizing security in the design phase and identifies specific focus areas for research and funding that touch on transition and adoption, training/ education, and incentive structures for better security.

For a complete list and brief descriptions of upcoming and past releases, check the [CRA Quadrennial Papers](#) page. All the CCC-contributed papers can also be found on the [CCC-led White Papers](#) page.

# 2020 Quadrennial Papers: Socio-Technical Computing and Diversity & Education



CRA released its third set of 2020 [Quadrennial Papers](#), part of a series of white papers produced through its subcommittees, exploring areas and issues around computing research with the potential to address national priorities over the next four years. These Quadrennial Papers attempt to portray a broad picture of computing research detailing potential research directions, challenges, and recommendations for policymakers and the computing research community. This release focused on papers around the themes of Socio-Technical Computing and Diversity & Education. Previously, CRA has released papers in the [Core Computer Science](#) and [Broad Computing](#) themes.

The two Socio-Technical Computing white papers released in this set were organized by CRA's [Computing Community Consortium](#) and focus on the intersection of computing technologies and society, in particular disinformation and data control. While the benefits of computing technologies are manifest, these papers highlight a call for increased understanding of how to avoid the myriad ways these technologies can also go wrong. From algorithmic mischief and disinformation, to the privacy cost of "big data," these papers highlight challenges that need addressing if we are to move computing research in a more socially-responsible direction.

The three papers in the [Diversity and Education theme](#), organized by CRA's [Committee on Widening Participation in Computing Research \(CRA-WP\)](#) and [Committee on Education \(CRA-E\)](#), address "people" issues in computing. The three papers describe issues around and make recommendations to improve the production of domestic PhDs, the need to establish pathways for post-graduates in non-computing disciplines to obtain computing skill, and new approaches for diversifying the computing workforce through graduate education.

Brief descriptions, author details, and links to the Quadrennial Papers released in this set are included below. For a complete list and brief descriptions of upcoming and past releases, check the [CRA Quadrennial Papers](#) page.



## Socio-Technical Computing

### **An Agenda for Disinformation Research**

*Authors: Nadya Bliss (Arizona State University), Elizabeth Bradley (University of Colorado, Boulder), Joshua Garland (Santa Fe Institute), Filippo Menczer (Indiana University), Scott Ruston (Arizona State University), Kate Starbird (University of Washington), and Chris Wiggins (Columbia University)*

This paper describes a multi-disciplinary research agenda incorporating disinformation detection, education, measurements of impact, and a new common research infrastructure to combat disinformation and its effects upon the US and the world.

### **Modernizing Data Control: Making Personal Digital Data Mutually Beneficial for Citizens and Industry**

*Authors: Sujata Banerjee (VMware Research), Yiling Chen (Harvard University), Kobbi Nissim (Georgetown University), David Parkes (Harvard University), Katie Siek (Indiana University Bloomington), and Lauren Wilcox (Georgia Institute of Technology)*

Via the Internet and IoT systems, there is an increasing amount of data being collected on individuals every day. This paper dives into the big questions related to this phenomenon, such as who owns the data, the implications for using, controlling, and quantifying the data, and, most importantly, how to best protect citizens' privacy.



**CRA-WP**

Computing Research Association  
Widening Participation



**CRA-E**

Computing Research Association  
Education

## Diversity and Education

### New Pathways for Workforce Diversification

*Authors: Raja Kushalnagar (Gallaudet University), Maria Gini (University of Minnesota), and Patty Lopez (Intel Corporation)*

Diversity enhances computing creativity. This paper recommends computing workforce diversification support through proven strategies of funding Masters programs at institutions committed to diversity, such as Minority Serving Institutions and Special Institutions, or in providing stipend funding for women, black, indigenous and other people of color, or people with disabilities for Masters or undergraduate research programs.

### Fostering a Postgraduate Tech Boom

*Authors: Jan Cuny (Northeastern University), Andrea Danyluk (Williams College), and Holly Rushmeier (Yale University)*

In order to maintain its political and economic position in the world, and for that position to benefit its citizens, the United States must build and retain the strongest and most innovative tech talent at all levels. While the CS4All movement is increasing the preparation of current K-12 students for future tech careers, the U.S. cannot wait for future generations to fill the current tech gap. Today's post-graduate population represents a valuable untapped resource for the country's workforce needs. This paper outlines opportunities and requirements to fill the tech gap with individuals who bring to the field a diversity of experience and perspectives to fuel innovation, as well as overcome problems of social justice and equity.

## Diversity and Education

### Addressing the National Need for Increasing the Domestic PhD Yield in Computer Science

*Authors: Susanne Hambrusch (Purdue University), Lori Pollock (University of Delaware), Ran Libeskind-Hadas (Harvey Mudd College), and Christine Alvarado (University of California, San Diego)*

The continuing demand for PhDs in computer science combined with this instability of international student participation requires bold action to increase the number of domestic students completing a PhD in computer science, especially as the percentage of domestic PhD students has decreased from 69 percent in 1985 to 37 percent in 2018. This report presents bold ideas on how government, industry, and academia can take action to engage domestic students to enter PhD programs and retain them through graduation. It focuses on increasing opportunities and funding for undergraduate research, creating new pathways into PhD programs, engaging students from admissions through PhD, and strengthening industry's role in increasing the number of PhDs in CS.

# Assured Autonomy Workshop Report Released

By CCC Staff

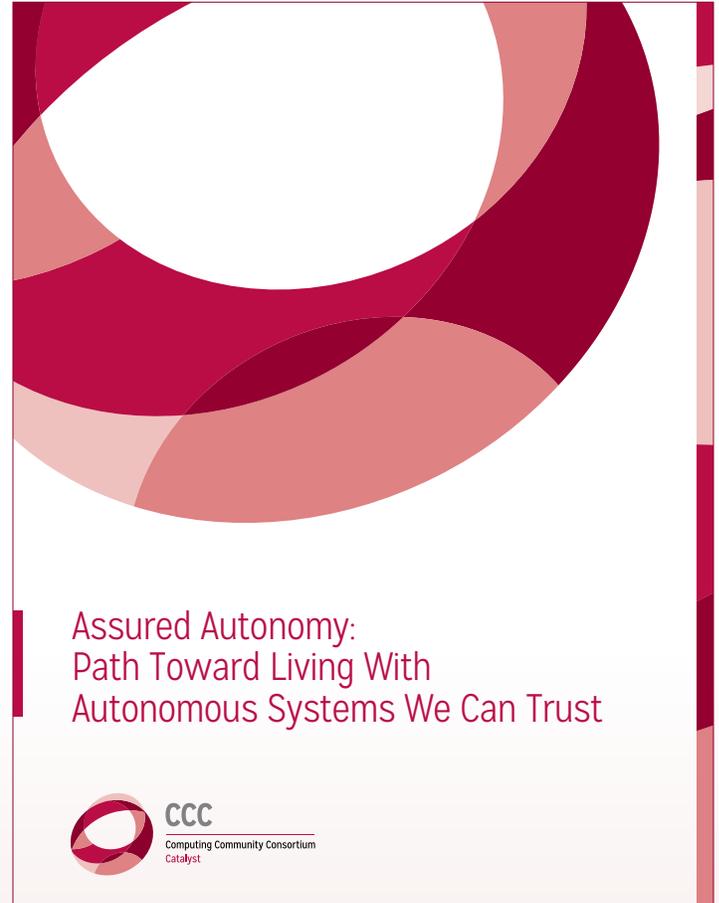
The **Computing Community Consortium (CCC)** is pleased to announce the release of the **Assured Autonomy report**, titled *Assured Autonomy: Path Toward Living With Autonomous Systems We Can Trust*.

The report is the result of a year-long effort by the CCC and over 100 members of the research community, led by **Ufuk Topcu** (The University of Texas at Austin). Workshop organizers included **Nadya Bliss** (Arizona State University and CCC), **Nancy Cooke** (Arizona State University), **Missy Cummings** (Duke University), **Ashley Llorens** (Johns Hopkins University, Applied Physics Laboratory), **Howard Shrobe** (Massachusetts Institute of Technology), and **Lenore Zuck** (University of Illinois at Chicago).

Given the immense interest and investment in autonomy, a series of three workshops, held in **October 2019**, **February 2020**, and **July 2020**, on Assured Autonomy was convened to facilitate dialogs and increase awareness among the stakeholders in the academia, industry, and government.

The following findings of this workshop series outline the challenges and shortcomings that need to be addressed so that autonomy can sustainably fuel a long-lasting transformation.

- No good can come from autonomy without proper assurance.
- The goal of assured autonomy is human-centered – to amplify, augment, enhance, and empower humans.
- Autonomous systems have a diverse set of vulnerabilities.
- Open operation environments amplify technical challenges.
- Assurance is context-dependent and not once-and-for-all.
- Assurance for autonomous systems requires a major re-think.
- Means for measuring the progress and characterizing the gaps are necessary.



- Autonomy is a socio-economic opportunity and challenge.
- The public will perceive and be affected by autonomy unevenly.
- The challenges in autonomy require interdisciplinary approaches.
- Strengthening connections between the stakeholders will accelerate progress.
- A re-envisioning of education and workforce development must be part of the path forward.
- A national research strategy for assurance is needed.



## Assured Autonomy *(continued)*

The following recommendations presented in the report build a vision for progress around a “network of institutes on autonomy” and briefly describe possible roles for the researchers, educators, and research sponsors.

The research community can contribute by...

- embracing the interdependency between the challenges; and
- developing a holistic view of these interdependent challenges.

The education and workforce development community can contribute by...

- aligning its priorities with the needs of the industry and government;
- focusing on establishing a foundation that will enable the students to acquire interdisciplinary skills; and
- broadening and diversifying the basis for qualified workforce in autonomy.

The envisioned network of institutes on autonomy should...

- enable interdisciplinary collaboration beyond what is possible today, including the disciplines that are currently considered to be peripheral;
- Increase the cultural and organizational connections between the academia, industry, and government agencies; and
- serve as an objective source of information to the public and the policymakers.

**See [the full report to learn more](#). Thank you to everyone in the community who participated in the three workshops and provided contributions to the drafts of this report!**

# CCC/NAE Workshop Report - The Role of Robotics in Infectious Disease Crises

By CCC Staff

In an effort to prepare for the next pandemic and perhaps aid in the current one, the **Computing Community Consortium (CCC)**, along with the **National Academy of Engineering**, hosted a virtual workshop entitled **Role of Robotics in Infectious Disease Crises** on July 9-10, 2020. Organized by **Gregory Hager** (The Johns Hopkins University), **Vijay Kumar** (The University of Pennsylvania), **Robin Murphy** (Texas A&M University), **Daniela Rus** (Massachusetts Institute of Technology), and **Russell Taylor** (The Johns Hopkins University), the workshop consisted of over forty participants including representatives from the engineering/robotics community, clinicians, critical care workers, public health and safety experts, and emergency responders. Today we are pleased to release the resulting report *The Role of Robotics in Infectious Disease Crises*.

The recent coronavirus pandemic has highlighted the challenges faced by the healthcare, public safety, and economic systems when confronted with a surge in patients that require intensive treatment and a population that must be quarantined or shelter in place. The most obvious and pressing challenge is taking care of acutely ill patients while managing spread of infection within the care facility. Robotic technologies are inherently programmable, and robotic systems have been adapted and deployed, to some extent, in the current crisis for such purposes as transport, logistics, and disinfection.

This report is the outcome of the workshop and outlines a strategy for increasing national preparedness to use robotic systems and technology in future infectious disease emergencies. It identifies key challenges faced by healthcare responders and the general population and then identifies robotic/technological responses to these challenges. It identifies the key research/knowledge barriers that need to be addressed in developing effective, scalable solutions.

Finally, the report ends with the following recommendations on how to implement this strategy:

- Conduct a full NAE consensus study on the potential for robotic systems to assist in healthcare emergencies and to develop a National Strategy for increasing national preparedness to use robotic systems and technology in future emergencies.
- Conduct scenario planning exercises to “game out” future pandemic crises in order to identify areas where better preparation can facilitate more effective deployment of robotic systems to meet emergent needs.

## The Role of Robotics in Infectious Disease Crises

### Workshop Final Report

October 2020

#### A Workshop Organized by

Gregory Hager, The Johns Hopkins University  
Vijay Kumar, The University of Pennsylvania  
Robin Murphy, Texas A&M University  
Daniela Rus, Massachusetts Institute of Technology  
Russell Taylor, The Johns Hopkins University

#### With Support From

Guru Madhavan, National Academy of Engineering  
Ann Schwartz Drobnis, Computing Community Consortium



The material is based upon work supported by the National Science Foundation under Grant No. 1734706. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation or the National Academy of Engineering.

- Increase research addressing knowledge barriers affecting the capability and mobilization potential of robotic systems.
- Initiate targeted research programs addressing environment-specific knowledge barriers to the deployment of robotic systems in infectious disease settings.
- Develop incentives for translational research to develop novel robotic systems for healthcare applications.
- Institute economic and policy incentives to accelerate adoption of adaptable robotic systems into everyday use by public agencies, particularly healthcare and the medical supply chain industry.
- Establish a consortium focused on robotic systems in infectious-diseases to facilitate connections between roboticists, government, industry, and citizen stakeholders and to provide a clearing house/repository for validated system designs and solutions that can be shared within the community.

See [the full report here](#).

# CRA-E Graduate Fellows Program Accepting Nominations



**CRA-E**

Computing Research Association  
Education

The Computing Research Association **Education Committee** (CRA-E) is now accepting **nominations** for the **CRA-E Graduate Fellows Program**. The program opportunities for Ph.D. candidates in a computing field to contribute to CRA-E projects, to network with computer science education advocates on the committee, and to engage in advocacy for mentoring undergraduate students and promote computer science research and undergraduate education at the national level.

CRA-E typically has two fellows and appoints one new graduate fellow per year with each fellow serving for two years in staggered appointments. Fellows serve as part of the committee, providing a graduate student voice. They attend the annual CRA-E meeting, manage the **research highlights series**, and contribute to the **CRA-E Conquer** site that provides resources for undergraduate research and graduate school.

Faculty members are invited to nominate one graduate student from their institution (but multiple nominations are permitted by distinct faculty members from the same institution) by collecting and submitting a nomination package that includes:

1. One faculty recommendation letter describing the student's interpersonal skills and evidence of interest in mentoring undergraduates. The letter should also state that the student is at least in the third year of a Ph.D. program and making satisfactory progress towards the degree.
2. The student's C.V. including research interests and accomplishments.
3. A one-page statement written by the student. The statement should describe the nominee's interest in the CRA-E Fellow position, experience mentoring undergraduates, and long-term aspirations.

More information is available at <http://cra.org/crae/activities/fellows/>. Nominations are due Wednesday, January 27, 2021 at 5 PM EST.

Please nominate a graduate student and encourage your colleagues to do so, too!

# CRA-E Releases Report on Best Practices for Scaling Undergraduate CS Research Opportunities



**CRA-E**

Computing Research Association  
Education

Undergraduate enrollments in CS have grown considerably and continue to grow. Yet opportunities for undergraduates to engage in CS research have not grown proportionally. Engaging undergraduates in research has tremendous benefits for students, and is critical to the health of the North American CS PhD pipeline.

The CRA's Education committee has released a **new report** documenting best practices and concrete suggestions for departments wishing to expand undergraduate research opportunities in CS (without overwhelming their faculty!). The report is based on a broad examination of existing structured research programs at universities across North America. It compiles the main challenges departments face in implementing undergraduate research programs, and provides best practices for addressing these challenges. A brief sample of some of these challenges and best practices are given below:

**Challenge:** It is time consuming to mentor undergraduate students.

**Associated Best Practice:** Expand mentoring structures to help spread the mentoring load. The report gives advice on mentoring structures.

**Challenge:** Achieving Equity and Diversity

**Associated Best Practice:** Lower the Barrier to Entry. The report describes broad-entry strategies that are more inclusive to all students, regardless of their prior experience or comfort approaching individual faculty members.

**Challenge:** Tensions with Tenure and Promotion

**Associated Best Practice:** Increase Benefits to Faculty. The report describes several ways benefits to faculty can be made more explicit.

The **complete report** gives more information about each suggestion above, as well as many more best practices. We hope this report will help academic leaders and faculty to build department-wide structures that will allow these departments to provide high quality undergraduate research opportunities to more, and more diverse, students in a way that is mutually beneficial for the students and the faculty.

## Report Authors

Christine Alvarado, *University of California, San Diego*

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Kelly Shaw, *Williams College*

Neil Spring, *University of Maryland*

# CRA-E Spotlights Outstanding Undergraduate Researchers in the Highlights Series

*By Ian Ludden and Jean Salac, CRA-E Graduate Fellows*

The **CRA-E Undergraduate Research Highlights series** is now in its third year of featuring outstanding undergraduate researchers from universities across North America. It is one of the many CRA-E activities that supports the computing research pipeline by honoring undergraduate research and promoting graduate education and research careers in computing fields.

Each article describes the journey of a successful undergraduate researcher, from finding research opportunities to disseminating

their work. The highlights series features students from the Finalists and Honorable Mentions of the **CRA Outstanding Undergraduate Researcher** competition, with the goal of offering guidance to the next generation of undergraduate researchers and to share how research has shaped their career aspirations. CRA-E chooses a diverse set of students for the highlights series to reflect the wide range of undergraduate institutions, research areas, and paths to research.

The first three articles for the 2020-21 academic year are



**Zaina Aljallad**

- “**Empowering Caregivers and Promoting Privacy,**” featuring Zaina Aljallad and her work on healthcare data protection;



**Ashlee Milton**

- “**Designing Search Engines & Recommender Systems for Children,**” portraying Ashlee Milton and her journey into studying information retrieval for children; and



**Chris Hill**

- “**Reimagining Human Sensation,**” highlighting Chris Hill and his research on human augmentation and transhumanism.

New highlights appear monthly on the **Undergraduate Research Highlights page** of the **CRA-E CONQUER website**. Please share these stories with undergraduate students, especially those considering a research career. To be notified of new articles, [subscribe here](#).

The **CRA-E Graduate Fellows** manage the research highlights from selecting and inviting students through writing and revising the articles. As current graduate students, fellows provide unique near-peer perspectives when writing the articles. They gain both professional service experience and a broader understanding of undergraduate research, preparing them to mentor undergraduates later in their careers.

# CRA-WP Renames the Grad Cohort for URMD Workshop



We would like to sincerely thank everyone involved in this renaming process. The community's willingness to discuss, listen, and provide insightful feedback was essential to improving the process and outcome.

We're pleased to announce the new name:

## **The Grad Cohort for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills - The IDEALS Workshop (formerly Grad Cohort for URMD)**

This process was truly a community effort that engaged and sought feedback from CRA-WP Board Members, Grad Cohort for URMD program leaders and executive steering committee members, past workshop participants and speakers, as well as CRA staff. In all, the survey was distributed to ~550 individuals.

The top choice of the community was the IDEALS Workshop, with many specifically stating the importance of having "Accessibility" in the name.

At the heart of this discussion and proposed change, the intention has been to listen to and capture the perspectives and preferences of our community, and then take swift action in enacting these changes in a timely manner. Given that this involves an evolving societal conversation it was our preference to not spell out the intended audiences in the workshop's new name.

We acknowledge that concern over the use of the acronym and term "URM" is not necessarily felt by all. However, we also firmly believe a name change was necessary given the issues raised with the term.

Again, we are truly thankful for everyone's involvement and are pleased to announce that applications for the 2021 Grad Cohort for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills - The IDEALS Workshop are now being accepted through Nov. 30, 2020.

Apply today by clicking [this link!](#)

## **APPLICATIONS OPEN for 2021 CRA-WP Graduate Cohort Workshops**

Applications are now open for the 2021 CRA-WP Graduate Cohort Workshops.

The 2021 Grad Cohort for Women will likely be a virtual workshop on April 23-24, 2021. [Apply here.](#)

The 2021 Grad Cohort for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills - The IDEALS Workshop (formerly the Grad Cohort Workshop for URMD) will be a virtual workshop on March 11-12, 2021. [Apply here.](#)

**Both applications will close on November 30.**

# Expanding the Pipeline: The Status of Persons with Disabilities in the Computer Science Pipeline



**CRA-WP**

Computing Research Association  
Widening Participation

*By Richard E. Ladner*

*Principal Investigator: AccessComputing*

For the past fifteen years, I have led the NSF-funded broadening participation alliance [AccessComputing](#) that has the goal of increasing the participation and success of people with disabilities in computing fields. This has given me and my team the ability to help create positive change and to observe what others have done to do the same. No doubt, there are still significant barriers for some students with disabilities to enter our field, and as technology changes new barriers often arise.

## Data on Disability

To understand the disparities and progress of students with disabilities in the computer science education pipeline, having good data is an imperative. As described in our 2020 RESPECT Conference paper, existing data on disability is often inconsistent and hard to understand [1]. Further, collecting data on disability is difficult, because of how the questions are asked and how the answers are interpreted can lead to wildly different numbers. A great example of this issue is in the Survey of Earned Doctorates (SED) that surveys all PhD recipients at US universities every year. For many years until 2009, PhD earners were asked about their disability status with a result that 1-2% reported a disability. In 2012 the question changed and the percentage went up, reaching 7.5% in 2018 (SED, Table 28). Indeed, in 2018, 3% of PhD earners reported a moderate or worse “visual limitation” that could not be corrected with glasses or contact lenses. This 3% compares with the 0.1% of K-12 students who have visual impairments served under Individuals with Disabilities Education Act (IDEA), Part B (NCES Table 204.30). This is a factor of about 30. Please do not infer from this data that earning a PhD causes blindness. How the data is collected matters. Data on students with disabilities who are in computer science is even harder to find and understand because of the inconsistency in the way disability is defined and the way computer science is defined.

## K-12 Education

In the US, students with disabilities who need additional supports fall under the Individuals with Disabilities Education Act (IDEA) or Section 504 of the Rehabilitation Act. In the former, a student will have an Individual Education Program (IEP) that lays out the education goals and accommodations that a student might need to succeed in school. In the latter, a student has the same education goal as other non-disabled students, but still needs accommodations to reach those goals. In US public schools there are about 7 million students covered under IDEA and as many as 2 million served under Section 504. This totals

to about 18% of all students in public schools. Most of these students are perfectly capable of doing computer science with the proper accommodations.

Computer science is rapidly becoming part of the standard K-12 curriculum in the US. There is a wonderful [report](#) by [Code.org Advocacy Coalition](#), [CSTA](#), and [ECEP](#) that tracks the progress of computer science in K-12 education. For the first time, in 2020, the report has data on students with disabilities. Eleven states reported on the number of students under IDEA who have taken at least one computer science course. In those states 12.9% of students are served under IDEA, while only 7.6% of students who took a computer science course are served under IDEA. Similarly, there are still significant gaps for women, Black/African American, Hispanic/Latinx, and English language learner students.

Although block-based programming environments such as [Alice](#), [Scratch](#), [App Inventor](#), and [App Lab](#) lack accessibility for students who use screen readers, switch access, and voice access, there is progress being made to create accessible block-based programming environments [2,3]. In addition to accessible curricula and tools, there is encouragement to CS teachers to use the principles of Universal Design for Learning (UDL) to reach students with learning differences [4]. At the more advanced level, AP Computer Science A still focuses on one programming language, Java, which may be an impediment to some students with disabilities because of its arcane syntax and use of special symbols. AP Computer Science Principles (CSP) is a more gentle introduction to computer science with several endorsed curricula using various programming languages. Depending on the particular instance of AP CSP the course may be more or less accessible to a student with a particular disability. The [Quorum](#) language based AP CSP curriculum, modeled after Code.org's, is fully accessible to screen reader users. In terms of data, the College Board does not release any data about participation in AP courses by students with disabilities, not even the number of



students who requested accommodations. At the same time, they do release data on gender and racial/ethnic status of test takers.

## Undergraduate Education

Unfortunately, the data on disability from the National Center for Education Statistics (NCES) suffers from the same problems as that was found in the Survey of Earned Doctorates. For example, in 2015-16 the percentage of undergraduate students reporting a disability was 19.4% (NCES Table 311.10, 2018), while in 2011-12 the percentage was only 11.1% (NCES Table 311.10, 2013). This data was obtained by sampling and, clearly, different questions were asked to obtain these numbers. By contrast, the K-12 data for students with documented disabilities under IDEA or Section 504 is at most 18%, and some percentage of these students with intellectual disabilities do not go to college. In addition, some students learn they have a disability while attending college. Basically, the numbers reported in K-12 are not consistent with numbers reported at the college level. I personally question whether these numbers from the 2018 NCES report really count students who have documented disabilities or receive disability related accommodations at the college level.

Although the CRA's [Taulbee Survey](#) does not gather data on disability, the CRA-CERP [Data Buddies](#) project does. In a 2017 survey of 9,591 undergraduate students majoring in a computing field 755 (7.9%) reported having a disability. In an [article](#) in *Computing Research News*, February, 2019, 32% of students with disabilities reported feeling like an outsider in their field. The percentage was even higher (45-46%) for students with disabilities who were women or in underrepresented minority groups. For men, regardless of disability, the percentage was only 17%. This result is an indicator that undergraduate students with disabilities are having difficulty feeling comfortable as computer science majors.

## Graduate Education

The same NCES Table 311.10, 2018 that reports undergraduate data also reports that in 2015-16 the percentage of graduate students with disabilities is 11.9%, which is up from 5.3% in 2011-12 reported in NCES Table 311.10, 2013. Here we see even more confusion about disability data.

Three years ago, CRA-WP created the [Grad Cohort for URMD \(now called Grad Cohort for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills - The IDEALS Workshop\)](#), that is a mentoring

and career development workshop for early career computing graduate students who are underrepresented minorities or have disabilities. Graduate students with disabilities have been well represented in this workshop.

## The Professions

There is little data on computer scientists in the professions, both academic and industry. One data point is the Stack Overflow Developer Survey. The [2020 survey](#) which had 64,532 participants found that 14.8% reported an anxiety, mood, or emotional disorder or autism, and 2.0% reported a physical difference (blind / having difficulty seeing or being deaf / having difficulty hearing). Again, this is self-reported data so the percentages depend on the way the disability question is asked.

One interesting phenomenon that has happened in the past few years is the interest in the tech industry in hiring qualified people with disabilities. Both [Google](#) and [Microsoft](#) have inclusive hiring programs focused on hiring people with disabilities, and other large companies have similar initiatives. The value of these employees comes from their expertise and their diverse perspectives.

## Discussion

A major takeaway of this article is that data on disability is hard to understand and gather, making it difficult to assess the participation of students with disabilities in the computer science education pipeline. The US government has decided over the past ten years to define disability in terms of the impact of an individual's functional limitations rather than on their disabling conditions. This has resulted in the large differences we have observed in data gathered by the Survey of Earned Doctorates and the National Center for Education Statistics. We will see how this affects disability data in the [US Census](#) next year. The functional definition of disability may be at odds with the disability rights movement that views disability through a social lens. Disability differences are more akin to racial and gender differences, just part of the diversity of humanity.

AccessComputing uses the social lens, sometimes called the "social model of disability," in its definition of and interactions with people with disabilities. If a student identifies as having a disability, we accept that, and work with them. Over the past 5 years we have worked with 477 computing students with disabilities (253 male, 182 female, 10 nonbinary/other). These students have diverse

# Status of Persons with Disabilities in the Computer Science Pipeline *(continued)*



racial/ethnic backgrounds (52 Black, 54 Latinx, 7 American Indian or Alaskan Native, 4 Native Hawaiian or other Pacific Islander). A total of 171 have completed bachelor's degrees and another 15 have completed their PhDs. For the most part, the remainder are still in school. Several of our former students are now professors at research universities. Students benefit by being funded to attend conferences such as the Tapia and Grace Hopper conferences, placement in industry and research internships, career development workshops and webinars, peer mentoring, and tutoring.

AccessComputing has also worked on institutional change, helping computing departments and organizations become more accessible and welcoming to people with disabilities. We have worked closely with the other NSF-funded Broadening Participation in Computing Alliances, CMD-IT, NCWIT, AnitaB.org, Code.org, and CRA-WP. In coordination with CRA-WP, AccessComputing funds students with disabilities attending the Grad Cohort IDEALS Workshop and placement of students with disabilities in research internships through the [DREU program](#). Since 2016, AccessComputing has funded 35 students in DREU research internships.

Understanding the computer science education pipeline with respect to students with disabilities is difficult. Nonetheless, the field benefits from their presence at all levels because innovation in the field benefits from diverse perspectives and skills.

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## Acknowledgement

This article is based upon work supported by the National Science Foundation under Grant No. 1539179.

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## About the Author

Richard E. Ladner is a Professor Emeritus in the Paul G. Allen School of Computer Science and Engineering at the University of Washington.

# AccessComputing Webinars for Your Organization

By Brianna Blaser, University of Washington

## Access Computing

AccessComputing can lead online presentations and discussions for your department, institution, organization, or another group of colleagues. Time could be set aside during the session to discuss specific strategies that your department or organization could utilize to move towards becoming more welcoming and accessible to students with disabilities or how you could include accessibility topics in your instruction or research.

### Presentation Topics

Below is a short list of some of the presentations that we can offer. There are more details on the page [Host a Webinar](#). If you're interested in scheduling a presentation, email me directly at [blaser@uw.edu](mailto:blaser@uw.edu) and we will get it scheduled.

- Integrating disability-related topics in a computing course
- Accessibility is becoming mainstream
- Introduction to Ability-Based Design
- Panel of students with disabilities in computing
- Perspectives of People with Disabilities Regarding Accessibility
- Teaching an accessible online course
- Accessible online meetings and presentations
- Designing accessible documents, videos and/or websites
- Accessibility and third-party products and services
- Universal design of teaching and learning
- Why is data on disability so hard to collect and understand?
- U.S. Laws about Accessibility



Computing Research Association  
**Academic Member Highlight Book**

Fall 2020

UNITING INDUSTRY, ACADEMIA, AND GOVERNMENT TO ADVANCE COMPUTING RESEARCH AND CHANGE THE WORLD.



## 2020 CRA Academic Member Book Released

Published online each fall, the CRA Academic Member Book highlights institutions that are member departments of CRA. Each academic member department is invited to submit a one page pdf about their department. Thanks to all the departments that took the time to prepare a submission.

The links for this year's book are available below:

<https://cra.org/2020-member-book-reduced-size>

<https://cra.org/2020-member-book-full-size>

This initiative started in 2017, and previous year books are available at: <https://cra.org/about/membership/member-books/>

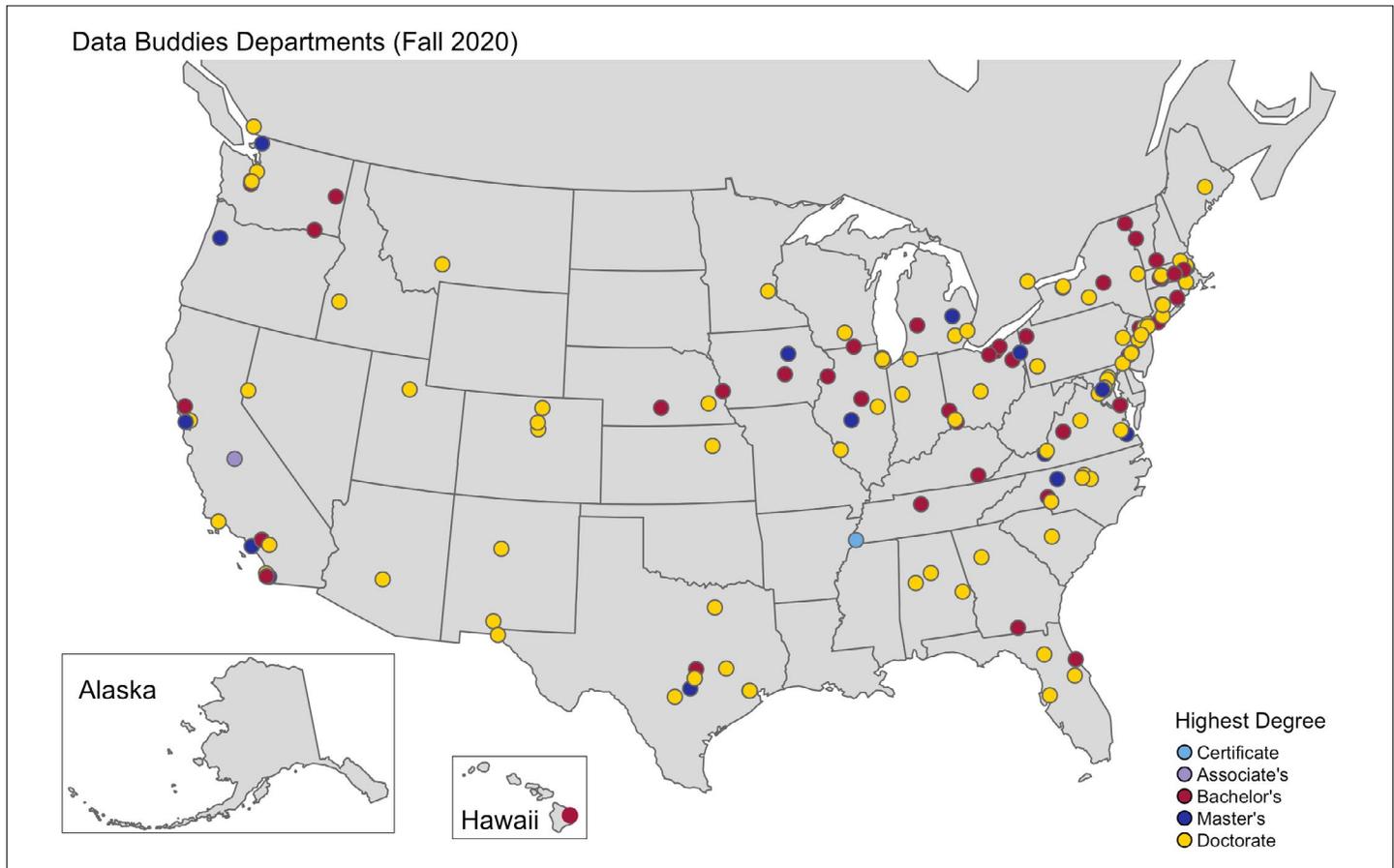
# More than 150 Data Buddies Departments Reach Across the US and Canada



CERP

Computing Research Association  
Evaluation

By Burçin Tamer, Director of CERP



CRA's [Data Buddies Project](#), managed by the [Center for Evaluating the Research Pipeline](#) (CERP), is a data collection and dissemination effort that collaborates with volunteering academic departments across US and Canadian universities and colleges. The project started as a pilot project in 2011 and has been growing in its reach since then. At present, 159 computing & technology departments from 150 institutions participate in Data Buddies, and more join each year. The map presented here shows the geographical distribution of the institutions participating in Data Buddies and identifies the department type in terms of the highest degree granted by the departments.

The project utilizes an annual, national level survey, the Data Buddies Survey (DBS), to gather large scale information from undergraduate and graduate students as well as non-degree earning and post-graduate individuals. DBS collects information regarding respondents' academic and demographic background, various indicators related to recruitment and retention in computing, and career pathways.

Data collected from the students is then shared with the participating departments in customized aggregate level reports and made available to researchers through data sharing requests and to the general public through data visualizations, infographics, and aggregate level reports. DBS also collects longitudinal data from respondents who agree to take part in follow-up surveys.

DBS 2020 was launched on October 29, for the students in the DBS longitudinal sample, and was distributed to the participating departments on November 3. Alongside the start of the new survey cycle, CERP is also, for the first time, releasing a descriptive report on DBS 2019. This report will provide the community with a summary of the national sample characteristics and serves as a preview for future more extensive Data Buddies reports.

DBS is a unique resource for the computing community to understand the impact of various broadening participation efforts and to generate evidence-based best practices to inform future interventions.



## Data Buddies Departments *(continued)*

Departments participating in Data Buddies can track their students' experiences in their degree programs and evaluate their activities and policies including their efforts for broadening participation in computing.

Visit <https://cra.org/cerp/data-buddies/> to find out more about the Data Buddies project, [view sample department reports](#), and sign-up to [become a data buddy](#).

This analysis is brought to you by the CRA's Center for Evaluating the Research Pipeline (CERP). CERP provides social science research and comparative evaluation for the computing community. Subscribe to the CERP newsletter [here](#).

This material is based upon work supported by the National Science Foundation under grant numbers (CNS-1246649, CNS 1840724, DUE-1431112, and DUE 1821136). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

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## Aarhus University

### *Assistant and Associate Professors*

Aarhus University is hiring Assistant and Associate Professors to contribute to the future of the Department of Computer Science

We in particular wish to build competencies and groups within Machine Learning/ Artificial Intelligence, Software Engineering and Systems Security, as well as Computer Graphics, and Computer Vision. In general, we encourage candidates within all areas of Computer Science to apply.

If you want to join the department and collaborate with our world-class researchers please read more about the positions available and apply for the positions here <https://au.career.emply.com/ad/aarhus-university-is-hiring-assistant-and-associate-professors-to-contribute-to-t/lqwjl/en>

*The position is open from June 1st 2021.*

## Augusta University

### *Tenure Track and Tenured Positions at the Assistant, Associate, and Full Professor Levels*

The School of Computer and Cyber Sciences at Augusta University is hiring up to ten new faculty members over the 20-21 academic year for the following disciplines: computer science, cybersecurity, information technology, and information systems. Hiring will continue until all positions are filled, through Summer 2021. Reach out [ccs@augusta.edu](mailto:ccs@augusta.edu) if you have questions.

The School was founded in 2017 with the mission to provide high-engagement, state-of-the-art education, and research across its Computer Science, Information Technology, and Cybersecurity disciplines, and with the vision of becoming a national leader in Cybersecurity. The School is embarking on a path of unprecedented growth to become a comprehensive research and education college, with substantial increases in faculty, and graduate and undergraduate enrollment.

Augusta, Georgia is becoming a primary hub for cybersecurity in the United States, and the area is poised for explosive development. It is located at the center of a number of academic, governmental and corporate partnerships critical to the nation's cyber security, including the U.S. Army Cyber Center of Excellence, the National Security Agency Georgia, the home of the United States Army Cyber Command, and the nearby Savannah River National Laboratory in South Carolina. The State of Georgia invested \$100M in the Georgia Cyber Center at Augusta University, a 325,000-square-foot research and education facility which opened in 2018 and is home to the School of Computer and Cyber Sciences.

Augusta University has embarked on an ambitious, multi-year effort to significantly expand its computing, cybersecurity, and data science activities. Applications are being invited for multiple tenure-track and tenured positions at the Assistant, Associate, and Full Professor levels, with responsibilities to advance education and research in all mainstream areas of computing, including information systems, computer science, cybersecurity, data science and other closely related and emerging fields.

Information about the school and a description of open positions are available on the school website at <http://www.augusta.edu/ccs>.

Applicants must hold a PhD in Computer Science, Information Systems, or a related discipline at the time of appointment. The ideal candidate will demonstrate the potential for sustained research excellence as well as a commitment to quality in undergraduate and graduate education. The target appointment date is Fall 2021.

To be considered as an applicant, candidates must apply via the Augusta University job board at <https://www.augusta.edu/hr/jobs/university/>. When applying, click external applicants and in the search bar, type the following job id: 221015. The following materials are required and must be submitted via the application portal:

- Cover letter that includes a brief synopsis of applicant's desired field, faculty rank, and primary research areas in which you would like to be considered.
- Curriculum vitae including a list of publications
- Statement describing research accomplishments and future research plans
- Diversity statement for teaching and student support
- Description of teaching philosophy and experience
- Contact information for at least three references
- Unofficial transcript copies for all degrees (official transcripts will be requested upon successful completion of an on-campus interview)

Augusta University is an equal employment, equal access, and equal educational opportunity and affirmative action institution. Also, Augusta University is a federal contractor and desires priority referrals of protected veterans. It is the policy of the University to recruit, hire, train, promote and educate persons without regard to age, disability, gender, national origin, race, religion, sexual orientation or veteran status.

## Baidu Research Cognitive Computing Lab

### *Postdoctoral Researchers in Cognitive Computing*

Baidu Research Cognitive Computing Lab (CCL) is looking for outstanding researchers with strong background in machine learning, statistics, applied mathematics, systems, databases, NLP, computer vision, security, theoretical computer science, etc. Our mission is to develop next generation cognitive computing technologies for better connecting billions of users to services. Our postdoctoral researchers are expected to focus on basic research in broad AI-related fields. This would be an excellent opportunity for fresh PhD graduates in CS, Statistics, EE, Amath, etc., to spend 1 – 3 years in an industrial research environment to prepare for their long-term research careers either in academia or research labs.

#### Qualifications:

1. PhD in Computer Science, Statistics, Electrical Engineering, Mathematics, Operation Research, or related fields.

2. Excellent publication record in major CS conferences or premier Stat/EE/SIAM journals. Examples are CVPR, FOCS, KDD, ACL, WWW, ICML, SIGMOD, JMLR, PAMI, IEEE Info. Theory, major statistics/mathematics journals, SIAM J. Computing, SIAM J. Optimization, etc.
3. Strong analytical and problem-solving skills.
4. Team player with good communication skills.

Locations: Bellevue WA, Sunnyvale CA, or Beijing China. Please send CV to [ccl-job@baidu.com](mailto:ccl-job@baidu.com)

## Boston College

### *Tenure Track Assistant Professor of Computer Science*

The Computer Science Department of Boston College seeks a tenure-track Assistant Professor beginning in the 2021-2022 academic year. Successful candidates for the position will be expected to develop strong research programs that can attract external funding in an environment that also values high-quality undergraduate teaching. Outstanding candidates in all areas of Computer Science will be considered, with a preference for those who demonstrate a potential to contribute to cross-disciplinary teaching and research in conjunction with the planned Schiller Institute for Integrated Science and Society at Boston College.

A Ph.D in Computer Science or a closely related discipline is required. See [cs.bc.edu](http://cs.bc.edu) and <https://www.bc.edu/bc-web/centers/schiller-institute.html> for more information. Application review is ongoing.

Applicants should submit a cover letter, a detailed CV, and teaching and research statements. Arrange for three confidential letters of recommendation to be uploaded directly to Interfolio. To apply go to: <https://apply.interfolio.com/79609>

Boston College conducts background checks as part of the hiring process. Information about the University and our department is available at [bc.edu](http://bc.edu) and [cs.bc.edu](http://cs.bc.edu).

Boston College is a Jesuit, Catholic university that strives to integrate research excellence with a foundational commitment to formative liberal arts education. We encourage applications from candidates who are committed to fostering a diverse and inclusive academic community. Boston College is an Affirmative Action/ Equal Opportunity Employer and does not discriminate on the basis of any legally protected category including disability and protected veteran status. To learn more about how BC supports diversity and inclusion throughout the university, please visit the Office for Institutional Diversity at <http://www.bc.edu/offices/diversity>.

## Boston University

### *Assistant Professor of Computational Linguistics*

Boston University invites applications for a tenure-track Assistant Professor of Computational Linguistics for primary appointment in the Department of Linguistics, with secondary appointment in or affiliation with the Computer Science Department, to begin July 1, 2021. The candidate will

conduct research; teach courses in Computational Linguistics and related areas (Linguistics, Computer Science) at all levels; and advise graduate and undergraduate students. The successful applicant will have excellent programming skills, experience in computational linguistic research, and a broad vision and general knowledge of the field of computational linguistics. The new hire will play a key role in our joint undergraduate major in Linguistics & Computer Science and help us develop a professional Master's program that will serve students with a background in Linguistics and/or Computer Science, paving the way for a wide variety of potential placements and careers. Requirements include a PhD in Linguistics (or Computational Linguistics) in hand by the start date, including some formal training in Computer Science, plus demonstrated excellence in teaching, advising, and research. For further information about our academic programs, see <https://ling.bu.edu> and <https://www.bu.edu/cs/>.

Application materials should be uploaded as individual PDF files through Academic Jobs Online at <https://academicjobsonline.org/ajo/jobs/17201>. These should include a 2-page cover letter plus separate statements about research; teaching; and diversity (describing past experience with and/or future plans for contributing to diversity and inclusion through research, teaching, and/or service), of not more than 2 pages each. Please also upload a curriculum vitae, documentation of success in teaching (e.g., complete sets of teaching evaluations), and three selected publications.

Three reference letters are to be uploaded by recommenders. For full consideration, applications should be complete by December 1, 2020.

Boston University is an AAU institution with a rich tradition of inclusion and social justice. We are proud that we were the first American university to award a PhD to a woman (1877) and that Martin Luther King Jr. received his PhD here (1955). The Linguistics Program is committed to the College of Arts & Sciences Diversity and Inclusion Strategic Plan (<https://www.bu.edu/cas/about/diversity-inclusion/>) for building a diverse, inclusive, and accessible environment for all. Applications from women, minorities, and candidates from other underrepresented groups are strongly encouraged. Recognizing that diversity of experience deepens the intellectual endeavor, we are dedicated to increasing the participation of all talented students, including those from underrepresented groups, in the study of language and are particularly interested in scholars who can contribute to the diversity and inclusiveness of the academic community, at BU and beyond, through their research, teaching, and service.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

## **Boston University**

### *Multiple Faculty Positions in Computing & Data Sciences*

The Faculty of Computing & Data Sciences at Boston University invites applications for three faculty positions. Qualifications required of all applicants include a PhD in any of the disciplines that span computing and data sciences; a strong record of research; a demonstrated capacity for interdisciplinary collaboration; and a commitment to innovation in teaching at the undergraduate and graduate levels.

Founded in 2019, CDS is a university-wide, degree-granting academic unit comprising scholars in core and applied areas of computing and data science. CDS will be housed in an iconic 19-story building with a convention-bending design inside and out at the heart of the BU Campus.

BU expects excellence in teaching and in research and is committed to building a culturally, racially, and ethnically diverse scholarly community, which is essential to its mission. While all candidates will be considered, special attention will be given to candidates from underrepresented groups. Candidates working in the following broad areas of research should apply:

- (1) Research examining issues related to the design and analysis of algorithmic, computational, and data-driven/AI decision systems within the context of legal, societal, and public policy frameworks, including the consideration of verifiability, transparency, privacy, security, and trust of computing and data

systems as they relate to concepts of autonomy, consent, governance, liability, equity, fairness, and ethics.

- (2) Research on design and implementation of data mining, machine learning, and AI systems, which are inspired by concepts from, or address unique challenges arising in specific application domains, ranging from the natural, physical, biomedical, and social sciences to public health, education, business intelligence, emerging media communications, computational humanities, human-computer interactions, and digital arts.
- (3) Research at the interface of social sciences, economics, and computation, including algorithmic mechanism design, computational social choice, bounded rationality and regret minimization, explainable machine learning, behavioral modeling for autonomous and multi-agent systems, data markets, pricing and fair division of shared resources, reputation systems, online and multisided marketplace platforms, and human-centered AI.

We are accepting applications for a tenured position in the first area identified above and tenure-track positions in the other two areas. Information about all positions is available at <https://www.bu.edu/cds-faculty/join-us/faculty-positions-available/>.

BU is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

## Boston University

### *Associate Professor of the Practice*

The Department of Computer Science invites applications for a non-tenure track Associate Professor of the Practice position beginning July 1, 2021. Qualifications required of all applicants include a Ph.D. in Computer Science or related discipline, a strong professional record and industry experience, and a commitment to teaching. Particular attention will be given to candidates with research experience in artificial intelligence, machine learning, deep learning, natural language processing, and related areas. The Department consists of a diverse group of 33 tenured and tenure-track faculty members, and offers programs leading to B.A., M.S., and Ph.D. degrees. The Department has research strengths in data mining, databases, graphics, image and video computing, machine learning, natural language processing, networking, distributed systems, operating systems, software design and implementation, real-time systems, security and cryptography, and theory of computation and algorithms. In addition, members of the Department collaborate closely with faculty across the university including mathematics and statistics, computer engineering, mechanical engineering, biology, earth and environment, economics, law, medicine, among others. Candidates are encouraged to demonstrate throughout their application their attention to diversity and inclusion as these topics relate to teaching, research, and engagement within the academic environment.

Review of applications will begin on November 1, 2020 and continue on a rolling basis. Additional information of the

Department is available at <http://www.bu.edu/cs>. Qualified applicants should apply at <https://academicjobsonline.org/ajo/jobs/17178>. Applications should include a cover letter, CV, research statement, teaching statement, up to three sample publications, and three reference letters.

Boston University expects excellence in teaching and in research and is committed to building a culturally, racially, and ethnically diverse scholarly community (<https://www.bu.edu/info/about/diversity/>). Boston University is an AAU institution with a rich tradition dedicated to inclusion and social justice. We are proud that we were the first American university to award a Ph.D. to a woman and of our record of inclusiveness. The College of Arts and Science includes diversity as one of five strategic goals. We are dedicated to increasing the participation of all talented students and are committed to the pursuit of Computer Science by underrepresented groups at BU and beyond. We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

## Bowdoin College

### *Computer Science Tenure Track Assistant Professor*

Bowdoin College's Computer Science Department invites applications for tenure-track position at the rank of Assistant Professor to begin July 1, 2021. We seek

applications from all areas of computer science, including interdisciplinary fields.

Bowdoin is seeking a colleague with a strong commitment to research and a promise of long-term successful scholarly engagement as well as a dedication to teaching excellence in a liberal arts environment. The position comes with generous research support including startup funding, a fully-funded, year-long junior sabbatical leave (after three years of teaching and successful reappointment), regular post-tenure sabbaticals, as well as conference and travel support. Bowdoin also provides robust assistance in securing funding from outside agencies.

The teaching load is two courses per semester. The successful candidate will share with all members of the department responsibility for introductory and intermediate level courses and will teach advanced courses in their area of specialization. Department faculty are committed to providing research opportunities for undergraduate students; the successful candidate will be expected to mentor independent projects and to actively encourage student involvement in their research. A Ph.D. in computer science is expected by the time of appointment.

Computer Science at Bowdoin is a dynamic and highly regarded department that has seen significant growth over the last decade; it is the fifth largest major overall and second among the sciences. Faculty members have developed innovative courses that explore, for example, social networks in politics, ethical issues in computing, and computational creativity. In collaboration with

the new Digital and Computational Studies Program, we have expanded the scope of what computation at Bowdoin comprises. In addition, the College has invested significant and on-going resources to increase the diversity of faculty and students in computer science and STEM fields more generally. These efforts are being further strengthened by external grants, student initiatives, and alumni donations.

Bowdoin is a learning community that warmly welcomes people of all backgrounds. We encourage applications from candidates committed to the instruction and support of a diverse student population and from those who will enrich and contribute to the College's multifaceted diversity. We especially encourage people from underrepresented groups to apply. In your application materials, please address how your teaching, scholarship, and/or mentoring would support our commitment to diversity and inclusion. Please visit us at the Bowdoin College virtual booth at the Society for Advancement of Chicanos/Hispanics and Native Americans in Science Conference, October 19-24, 2020!

We recognize that recruiting and retaining faculty may involve considerations of spouses and domestic partners. To that end, where possible, the College will attempt to accommodate and respond creatively to the needs of partners and spouses of members of the faculty.

Bowdoin College accepts only electronic submissions. Please visit <https://careers.bowdoin.edu> to submit: 1) cover letter; 2) curriculum vitae; 3) statement of research plans; 4) statement describing teaching

philosophy/experience; 5) statement describing potential contributions to diversity and inclusion; 6) names and contact information for three references who have agreed to provide letters of recommendation upon request. Applications will be reviewed on a rolling basis, beginning December 15, 2020. We expect to conduct this search remotely, in consideration of the health and safety of candidates and the Bowdoin community.

Founded in 1794 on the Maine coast, Bowdoin is one of the oldest and most selective coeducational, residential liberal arts colleges in the country. Located in Brunswick, a 30-minute drive north of Portland, the College is in an area rich with natural beauty and year-round outdoor activities. Bowdoin's reputation rests on the excellence of its faculty and students, intimate size, strong sense of community, and commitment to diversity (35.3% students of color, 7.4% international students and approximately 15% first generation college students). Bowdoin College complies with applicable provisions of federal and state laws that prohibit unlawful discrimination in employment, admission, or access to its educational or extracurricular programs, activities, or facilities based on race, color, ethnicity, ancestry and national origin, religion, sex, sexual orientation, gender identity and/or expression, age, marital status, place of birth, genetic predisposition, veteran status, or against qualified individuals with physical or mental disabilities on the basis of disability, or any other legally protected statuses. For further information about the College and our department, please visit our website: <http://www.bowdoin.edu>.

## Brown University

### Lecturer in Computer Science

The Department of Computer Science at Brown University is seeking applicants for a faculty position at the rank of lecturer, senior lecturer, or distinguished senior lecturer. We strive to build a diverse and inclusive environment for all members of our community, and are particularly interested in candidates whose teaching, service, and scholarship (if applicable) can further our efforts. Brown also aims to foster a diverse and inclusive environment; its detailed vision and action plan for realizing this commitment is articulated in Pathways to Diversity and Inclusion.

The initial appointment would be for a 3-year period (renewable with potential for promotion and longer-term contracts). This position is part of a major expansion plan for the department as it is increasing its roster by 50% over the next few years. The position involves teaching four undergraduate courses per year and advising undergraduate CS majors. At least some of the teaching would be in first- and second-year courses. Candidates will also teach some upper-level undergraduate courses, based on their expertise and department needs. The department seeks candidates who will contribute to its overall intellectual culture; lecturers are included in faculty meetings, advise undergraduate research projects, and participate in graduate research with the rest of the faculty. Lecturers with substantial research participation and supporting funds may be eligible for periodic course release. The department values teaching and educational innovation, and welcomes candidates

interested in formally researching computing education in the context of their teaching. We are also emphasizing socially responsible computing throughout our curriculum.

Brown offers a vibrant community for both teaching and research, with 31 tenured and tenure-track faculty members, three lecturers, three research faculty and several affiliated, adjunct, and visiting faculty members. The department has a strong undergraduate culture, anchored by a mature program for undergraduate teaching assistants (endowed at \$10 million), as well as a long history of top-caliber published undergraduate research. Research and graduate programs leverage disciplinary strengths in CS as well as Brown's broader interdisciplinary culture. CS is a founding partner in multiple university-wide initiatives including Data Science, Computational and Molecular Biology, Cybersecurity, and Human-Centered Robotics.

Brown University is committed to fostering a diverse, inclusive, and global academic community. As an EEO/AA employer, Brown considers applicants for employment without discrimination on the basis of gender, race, protected veteran status, disability, or any other legally protected status. The department is similarly committed to building a diverse faculty and strongly encourages women, underrepresented minorities and those who can contribute to the excellence, diversity, and inclusivity of our academic community. We ask the candidates to report any relevant experience, including work with diverse constituents, and plans in their teaching statements.

Brown University is located in Providence, RI, close to Narragansett Bay, an hour from Boston and about three hours from New York City. Providence has been consistently rated among the Northeast's most livable cities and is home to diverse intellectual, artistic, and business communities.

The position is expected to start in the fall of 2021. In selecting candidates, we will consider quality of teaching, evidence of effective teaching, commitment to diversity and inclusion, and compatibility with the area needs and interests of the department, as well as potential for effective participation in department or university activities. For all applicants, we will consider potential for impact beyond Brown (through teaching, research, significant system building, outreach, or other professional activities, as appropriate for the candidate). Applicants must have a Ph.D. by the start of the position. Applicants must submit a cover letter, a CV, a teaching statement, a diversity statement (which can be included in the teaching statement) and a research statement (or a statement describing other significant professional activities beyond classroom instruction). Candidates must also arrange for at least three letters of reference to be submitted through the application website.

To apply, please use Interfolio (<https://apply.interfolio.com/79399>). **Review will begin on November 1, 2020**, but applications will be considered until the position is filled. Inquiries may be addressed to: [teaching\\_faculty\\_search\\_2021@lists.cs.brown.edu](mailto:teaching_faculty_search_2021@lists.cs.brown.edu)

## Brown University

### Tenure-track Faculty in Computer Science

The Department of Computer Science at Brown University is hiring a tenure-track faculty member at the level of Assistant Professor. We strive to build a diverse and inclusive environment for all members of our community, and are particularly interested in candidates whose scholarship, teaching and service can further our efforts. Brown also aims to foster a diverse and inclusive environment; its detailed vision and action plan for realizing this commitment is articulated in Pathways to Diversity and Inclusion.

We are focused on candidates whose research addresses at least one of the following:

- theoretical computer science, especially design and analysis of algorithms
- computer science education
- algorithmic fairness, accountability, and transparency with application to broader social issues

While we are specifically interested in candidates who connect to the areas listed above, we will also consider other candidates who have the potential to make exceptional contributions to our goals.

Applicants whose research may relate to our other open position in Data Science (<https://www.brown.edu/initiatives/data-science/about/jobs-dsi>) are encouraged to apply to both searches.

These positions are a part of a major expansion plan for the department as it works to increase its faculty roster by close to 50% over a five-year period. While



## Tenure Track Assistant/Associate Professor of Computer Science

The Department of Computer Science at Bucknell University seeks applications for a tenure-track position at the rank of Assistant Professor or Associate Professor in Computer Science beginning August 2021. We seek applicants who demonstrate interest in reflective, multicultural, and inclusive teaching practices and who commit to collaborating with departmental colleagues and students. The successful candidate will teach in one or more areas of our core CS curriculum and will have opportunities to develop elective courses in their areas of expertise.

As a liberal arts institution, we value a broad definition of computer science, and we are particularly interested in candidates whose research areas either expand the range of expertise in the department or lead to connections with other disciplines, such as the humanities, arts, social sciences, or natural sciences. Candidates will be expected to develop a scholarly program that creates opportunities for student mentorship and participation. Bucknell University provides support for a pre-tenure sabbatical leave, scholarly travel and development funds, and numerous programs to fund faculty-guided undergraduate research. In addition to the College of Engineering's state-of-the-art equipment and labs, the Department of Computer Science has recently expanded its space to include a high-performance computing lab and a dedicated research lab for students and faculty. A PhD is required for this position, but candidates in the final stages of their doctoral work will be considered.

Bucknell is a nationally recognized leader in undergraduate education. The Department of Computer Science provides an undergraduate education in a liberal arts context that features close interactions with a small student body. The department is committed to student-centered, high-impact activities that foster the intellectual development of students, and to a community that supports diversity. We welcome candidates who offer embodied diversity in all forms. The successful candidate will demonstrate inclusive pedagogical practices and cultural conversance in the computer science classroom. Evidence of the candidate's commitment to equity in both the classroom and in scholarly collaboration must be included in the application materials.

Review of applications will begin on November 1 and continue until the position is filled. Candidates are asked to submit a cover letter, CV, a statement of teaching philosophy, a statement of research interests, a statement describing any past experience, training, or engagement with issues of diversity, equity, and inclusion, and the contact information for three references (letters of recommendation will be requested in a later stage of the process). Applications are accepted exclusively through <https://apptrkr.com/2020168>. Questions should be directed to L. Felipe Perrone, Professor and Chair of Computer Science ([perrone@bucknell.edu](mailto:perrone@bucknell.edu)).

many of these positions will be used to strengthen and expand core CS areas, some will be used to build bridges with other campus disciplines to facilitate

interdisciplinary research and teaching. As a part of our overall plan, we are also emphasizing socially responsible computing throughout our curriculum.

The department has 31 tenure-stream and 3 research faculty members, 3 lecturers, and several adjunct and visiting faculty members. In addition to its strong graduate program, the department has a strong undergraduate culture, anchored by a mature, endowed program for undergraduate teaching assistants and research assistants. Department members frequently take advantage of Brown's interdisciplinary culture via collaborations with numerous other Brown units including Applied Mathematics, Biology, Brain Sciences, Cognitive Linguistic and Psychological Sciences, Economics, Engineering, Mathematics, Medicine, Public Health, Public Policy, and Visual Arts, as well as the Rhode Island School of Design. CS is a founding partner and plays key roles in major university-wide programs and initiatives including Data Science, Humanity Centered Robotics, Cybersecurity, and Computational and Molecular Biology.

Brown University is committed to fostering a diverse, inclusive, and global academic community. As an EEO/AA employer, Brown considers applicants for employment without discrimination on the basis of gender, race, protected veteran status, disability, or any other legally protected status. The department is similarly committed to building a diverse faculty and strongly encourages women, underrepresented minorities and those who can contribute to the excellence, diversity, and inclusivity of our academic community. We strongly encourage the candidates to report any relevant experience, including work with diverse constituents, and plans in their teaching statements or in a separate diversity statement.

Brown University is located in Providence, RI, an hour from Boston and about three hours from New York City, both accessible via frequent rail service, and close to Narragansett Bay. Providence has been consistently rated among the Northeast's most livable cities and is home to diverse intellectual, artistic, and business communities.

Applicants must have completed all requirements for the doctoral degree by the start of the position. The initial appointment as assistant professor is for four years and is renewable. Applicants must submit a cover letter, a CV, a teaching statement, and a research statement. Candidates must also arrange for at least three letters of reference to be submitted through the application website. Please also provide a diversity statement (which can be included as a part of your teaching statement), in which you summarize your past and planned contributions to diversity and inclusion. These contributions may arise from teaching/mentoring, outreach, lived experience, or other activities. (For additional information about the university's and department's commitment to diversity and inclusion, see [www.brown.edu/about/administration/institutional-diversity/pathways](http://www.brown.edu/about/administration/institutional-diversity/pathways) and [www.cs.brown.edu/about/diversity](http://www.cs.brown.edu/about/diversity).) We are eager to try to accommodate the needs of, and welcome applications from, dual-career couples.

Applications will be considered until the position(s) are filled but we strongly encourage the candidates to submit complete applications (including reference letters) by **December 1, 2020** for full

consideration. We will start application reviews and interviewing immediately and highly encourage early applications. Applicants who would like confidentiality should explicitly mention this desire in the first paragraph of their cover letters. To apply, please use Interfolio: (<https://apply.interfolio.com/79395>). Inquiries may be addressed to: [faculty\\_search\\_2021@lists.cs.brown.edu](mailto:faculty_search_2021@lists.cs.brown.edu).

## California Institute of Technology

### *CMS Tenure-Track Faculty Position*

The Computing and Mathematical Sciences (CMS) Department at the California Institute of Technology (Caltech) invites applications for tenure-track faculty positions. The CMS Department is part of the Division of Engineering and Applied Science (EAS), comprising researchers working in and between the fields of aerospace, civil, electrical, environmental, mechanical, and medical engineering, as well as materials science and applied physics. The Institute as a whole represents the full range of research in biology, chemistry, engineering, geological and planetary sciences, physics, and the social sciences.

Fundamental research in computing and mathematical sciences, and applied research which links to activities in other parts of Caltech, are both welcomed. A commitment to world-class research, as well as high-quality teaching and mentoring, is expected, and appointment as an assistant professor is contingent upon the completion of a Ph.D. degree in applied mathematics,

computer science or related areas. The initial appointment at the assistant professor level is four years. Reappointment beyond the initial term is contingent upon successful review conducted prior to the commencement of the fourth year.

- Interviews will take place in January and February 2021.
- Applications will be reviewed beginning 22 October 2020 and all applications received before 1 December 2020 will receive full consideration.
- Applications received before 8 November will be considered for interviews in January.
- Applications received after 8 November will be considered for interviews in February.

To fulfill Caltech's commitment to promoting diversity, inclusiveness, and excellence in research on our campus, we actively seek candidates who can work with, teach, and mentor students from under-represented communities. Along with other standard application materials, applicants should submit a diversity and inclusion statement that discusses past and/or anticipated contributions to improving diversity, equity, and inclusion in the areas of research, teaching, and/or outreach.

For a list of all documents required, and full instructions on how to apply online, please visit <https://applications.caltech.edu/jobs/cms>. Questions about the application process may be directed to [search@cms.caltech.edu](mailto:search@cms.caltech.edu).

Caltech is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual

orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

## Carnegie Mellon University

### *Department Of Electrical & Computer Engineering*

#### *Faculty Positions (Pittsburgh)*

The Department of Electrical and Computer Engineering (ECE) at Carnegie Mellon University is accepting applications from candidates for tenure-, research-, and teaching-track positions at all ranks for our Pittsburgh campus. While all areas will be considered, we have particular interest in candidates who focus on research and teaching for computer architecture, hardware security, wireless systems (antenna and beyond 5G), embedded systems, machine learning, integrated circuit design, power systems, and software for engineering applications.

The ECE department and College of Engineering are ranked among the top programs in the United States, both at the undergraduate and graduate levels. We are an extremely collaborative department with ties to several multidisciplinary institutes and centers. We collaborate with colleagues around the world through a number of research and educational programs. We have world-class experimental and computing infrastructure, including state-of-the-art nanofabrication facilities.

Our mission is to be a creative driving force of the highest scholarly and entrepreneurial quality that will inspire

and educate engineers to solve important societal challenges. The foundation of our collaborative research is based on a strong practice of inclusion. We take pride and active steps in considering a diverse applicant pool in terms of gender, race, veteran status, and disability. Carnegie Mellon University further seeks to meet the needs of dual-career couples and is a member of the Higher Education Recruitment Consortium (HERC) that assists with dual-career searches.

For all tracks, we are seeking individuals who hold a Ph.D. in a relevant discipline and have demonstrated commitment to our core values: creativity, quality, innovation, and engineering solutions.

- **Tenure-track faculty** carry a moderate teaching load that allows time for quality research and close involvement with students. We expect Tenure-track faculty to establish and grow a strong research program, contribute to our teaching mission, and demonstrate a passion for mentoring and advising students.
- **Research-track faculty** are not required to teach but do so when it is mutually beneficial to the faculty and the department. Research-track faculty are compensated for both teaching and advising Ph.D. students. These faculty members primarily focus on developing leadership within one or more areas of research, forming research collaborations, and supervising of Ph.D. students.
- **Teaching-track faculty** focus primarily on teaching but our curriculum includes research opportunities as well. Teaching-track faculty serve as a core part of our

strategy for our undergraduate education and mentoring mission. Areas of particular interest for teaching track positions in Pittsburgh are: digital system design, FPGAs, C and assembly programming, operating systems, computer architecture, cyber-physical and embedded systems.

Apply here: <https://apply.interfolio.com/78410>

Applications must include a curriculum vitae, research, teaching, and diversity statements, and three to five letters of recommendation. Our application review process will begin on October 1, 2020. Carnegie Mellon is an EEO/Affirmative Action Employer – M/F/Disability/Veteran.

## Carnegie Mellon University

*Postdoc position: image analysis*

See [xulabs.github.io/position](https://xulabs.github.io/position)

## Carnegie Mellon University

*Teaching & Non-Tenure Track Faculty*

The Information Networking Institute (INI) at Carnegie Mellon University (CMU) is soliciting applications for faculty at all levels for CMU's main campus in Pittsburgh, PA, and Silicon Valley campus in Mountain View, CA, in our core technical areas of networking, security and mobile and IoT engineering, including but not limited to: mobile computing, embedded systems, Internet of Things technologies, telecommunications, data analytics and machine learning, information security, software security, network security and cyber operations.

We are primarily seeking teaching track faculty candidates, however there are opportunities for special track faculty and/or research track faculty jointly with other departments at Carnegie Mellon.

Learn more and apply: <https://apply.interfolio.com/78496>

## Carnegie Mellon University: College of Engineering: CMU-Africa

### Location

Kigali, Rwanda, AFRICA

### Open Date

Oct 1, 2020

### Description

Carnegie Mellon University Africa (CMU-Africa, <https://www.africa.engineering.cmu.edu/>) invites applications for teaching-track faculty positions at its location in Kigali, Rwanda.

The College of Engineering at Carnegie Mellon University, a world leader in information technology, engineering and artificial intelligence, has extended its global reach into Africa. Offering master's degrees to full-time resident students from many countries across Africa at our base in Kigali, Rwanda, CMU-Africa is educating future technology leaders who will help accelerate the digital transformation happening in Africa.

We are seeking highly-qualified candidates at all levels to join our dynamic, world-class faculty in contributing to the emerging knowledge-based economies across Africa. Our faculty members collaborate with industry to deliver innovative,

interdisciplinary graduate teaching and research programs in the African setting. We are particularly interested in applicants interested in teaching and doing research in artificial intelligence and machine learning, cybersecurity and privacy, software engineering, education technology, and technology entrepreneurship.

Teaching-track faculty focus mostly on strengthening our graduate education and mentoring mission but are encouraged and supported to conduct research as well. Candidates should possess a Ph.D. from a leading research university and have a passion for teaching and doing research in the context of opportunities in Africa. Applicants who have passion for a culturally diverse environment and promoting an inclusive environment are encouraged to apply.

We take pride and active steps in considering a diverse applicant pool in terms of gender, race, veteran status, and disability.

Our review of applications will start on December 1, 2020. However, we will consider applications fitting CMU-Africa needs throughout the academic year.

### Application Process

This institution is using Interfolio's Faculty Search to conduct this search. Applicants to this position receive a free Dossier account and can send all application materials, including confidential letters of recommendation, free of charge.

Apply Now: <https://apply.interfolio.com/79346>

Carnegie Mellon University shall abide by the requirements of 41 CFR §§ 60-1.4(a),

60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

## City University of Hong Kong

### *Worldwide Search for Talent*

City University of Hong Kong is a dynamic, fast-growing university that is pursuing excellence in research and professional education. As a publicly-funded institution, the University is committed to nurturing and developing students' talents and creating applicable knowledge to support social and economic advancement.

### *Professor/Associate Professor/Assistant Professor*

#### *Department of Computer Science*

[Ref. A/430/09]

The Department of Computer Science has internationally known research groups in a number of areas, including bioinformatics, cloud computing, evolutionary computation, information security, machine learning and data science, mobile computing, multimedia computing and graphics, and software engineering. The Department is ranked the 11th

best Computer Science Department globally by the US News & World Report (2019).

For further details, please visit <http://www.cityu.edu.hk/hro/en/job/current/academic.asp?ref=uac-a430>.

City University of Hong Kong is an equal opportunity employer and we are committed to the principle of diversity. Personal data provided by applicants will be used for recruitment and other employment-related purposes.

## Colby College

### *Visiting Assistant Professor in Computer Science*

Colby College invites applications for a Visiting Assistant Professor position in Computer Science, to start on September 1, 2021. Applicants must hold, or be close to completing, a Ph.D. in computer science, computer engineering, or a related area. We welcome applications from all research and teaching areas of expertise.

For more information and required materials, see [cs.colby.edu](https://cs.colby.edu). Review of applications will begin on 15 January 2021 and will continue until the position is filled.

Colby is a private, coeducational liberal arts college that admits students and makes employment decisions on the basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. Colby College does not discriminate on the basis of race, color, gender, sexual orientation, gender identity or expression, disability, religion, ancestry or national origin, age, marital

status, genetic information, or veteran's status in employment or in our educational programs. Colby is an Equal Opportunity employer, committed to excellence through diversity, and encourages applications from qualified persons of color, women, persons with disabilities, military veterans and members of other under-represented groups. Colby complies with Title IX, which prohibits discrimination on the basis of sex in an institution's education programs and activities. Questions regarding Title IX may be referred to Colby's Title IX coordinator or to the federal Office of Civil Rights. For more information about the College, please visit our website: [www.colby.edu](http://www.colby.edu)

## Colorado College

### *Assistant Professor, Computer Science*

The Department of Mathematics and Computer Science at Colorado College invites applications for a tenure-track position at the Assistant Professor level in Computer Science to begin in August of 2021. We seek a computer scientist with broad teaching interests who can teach introductory as well as advanced computer science courses to a diverse community of students and mentor computer science majors who are completing their capstone experience. All candidates should be able to teach introductory and advanced computer science courses including programming and a CS elective in their primary field of study. We are also particularly interested in candidates who can teach computer architecture, data structures and algorithms, or theory of computation. The successful candidate should also be able to develop and

maintain a rigorous program that can engage undergraduate students, mentor computer science students who are completing their capstone experience, and advise students who are interested in computer science. Finally, the successful candidate will be expected to contribute to the department and the College through service.

Colorado College is a nationally recognized, residential liberal arts college with about 2,000 students. Located one-hour south of Denver, the city of Colorado Springs offers many cultural and recreational activities in the foothills of the Rocky Mountain Region. The College actively promotes a dynamic and inclusive environment in which students and employees of diverse backgrounds, cultures, and perspectives can learn and work. Strong candidates should share the college's and department's deep commitment to antiracism (Antiracism at CC) and be committed to the principles of diversity, equity and inclusion (DEI) in all facets of life at the College.

The department fosters a supportive, inclusive, and equitable learning community of faculty and students who share a passion for computer science. It is our goal to provide a nurturing learning environment that stimulates growth and intellectual exploration. The department values depth and breadth in computer science; potential for implementing innovative, inclusive and equitable teaching methods in a liberal arts setting; and mentored undergraduate research. One distinguishing feature of Colorado College is its Block Plan, in which professors teach, and students take, one course at a time. Professors teach five of eight blocks in an academic year and devote

one block to supervising capstone projects. Each block is three and a half weeks long.

Applicants should describe their interest in teaching computer science in a liberal arts environment in their cover letter. Applications should also contain: a teaching statement including a discussion of your potential to incorporate active learning strategies; a research statement discussing your research interests and potential for including undergraduate students in your work; a diversity statement detailing your potential to contribute to DEI at Colorado College through your teaching, research, and/or service; graduate school transcripts, and three confidential letters of recommendation (request that writers submit separately). At least one letter should comment on teaching experience and potential. A Ph.D. in Computer Science or related field is required. Applicants should provide evidence of teaching effectiveness, if available. Applications from candidates who have reached ABD status will be considered.

The department plans to conduct initial interviews in December, and to invite several top candidates for interviews in January 2021. Review of applications will begin on November 2, 2020; to ensure consideration, your application should be completed by that date.

Apply online at <https://employment.coloradocollege.edu/postings/4496>

Colorado College is an equal opportunity employer committed to increasing the diversity of its community. We do not discriminate on the basis of race, color, national origin, gender, age, religion, gender

identity or expression, disability, or sexual orientation in our educational programs and activities or our employment practices.

## Colorado State University

### *Tenure-track Assistant or Associate Professor in Computer Science - Computer Networks*

The Department of Computer Science at Colorado State University (CSU) invites applications for a tenure-track position at the level of assistant or associate professor beginning in fall 2021. The candidate must demonstrate potential for excellence in research, teaching and service. A Ph.D. in computer science or related area is required by the date of appointment.

The Department is specifically looking for candidates with expertise in algorithmic and systems innovations in the area of Computer Networks. Priority and preferred areas are - Networks Beyond 5G, High Performance Networking, Network Security, and Next Generation Network Virtualization. For full consideration applications must be submitted by 11:59 pm (Mountain Time) on November 30, 2020. For a complete position announcement including minimum qualifications and application instructions, please see <http://jobs.colostate.edu/postings/80487>

CSU is an EO/EA/AA employer and conducts background checks on all final candidates.

# Professional Opportunities

Suitable research fields include, but are not limited to:

*Computational social science*

*Network science*

*Visualization*

*Technical approaches to HCI*

“...any person... any study” (Ezra Cornell, 1868)

## Information Science at Cornell

*is hiring*

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by December 1  
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### Cornell Tech (New York, NY)

*Electrical and Computer Engineering*

*Tenured/tenure-track Faculty Positions*

The School of Electrical and Computer Engineering at Cornell University invites

applications for tenured/tenure-track faculty positions at Cornell Tech. Cornell University's new campus in New York City. Cornell Tech is a graduate research and education campus focused on creating pioneering leaders and technologies for the digital age. This search includes Cornell faculty positions that are

part of the Jacobs Technion-Cornell Institute at Cornell Tech.

We welcome exceptional applicants in all research areas and at all levels of seniority. We are particularly interested in applicants from areas broadly relevant to the current research trajectories and priorities at the Cornell Tech campus while addressing the big challenges of our societies, such as transportation, urban infrastructure, energy, information security, and healthcare. Specific research areas of emphasis include: robotics, cyberphysical systems, computer systems, Internet of things, large-scale data processing, communication, and storage, security/privacy, mobile sensing, and machine learning/data science.

Applicants must hold a Ph.D. or equivalent degree. In keeping with the mission of Cornell Tech, applicants must also have a strong interest in activities that reach beyond academia for external engagement and impact, in areas that may include technology commercialization and entrepreneurship, or activities with non-profit organizations, government and policy issues, international programs, or pre-college (K-12) education. Applicants for senior positions should have a demonstrated track record of such external engagement.

Please apply online at <https://academicjobsonline.org/ajol/jobs/17072>.

We will begin reviewing and interviewing candidates immediately and continue until positions are filled. Applications received by December 15, 2020 will be given full consideration. Applicants should submit a curriculum vitae (CV), brief statements

describing research, teaching, and external engagement, a statement of diversity, equity, and inclusion, and arrange to have at least three reference letters submitted. In the cover letter, CV, or research statement, applicants should identify a small set of their most significant pieces of work. A distinguishing characteristic of research at Cornell Tech, in addition to world-class academic work, is that it engages deeply with external communities, organizations, K-12 education, and industry to address real-world problems and contexts that amplify the direct commercial and societal impact of our research. Accordingly, within a clearly identified subsection of the Research Statement, the candidate should address prior accomplishments and future plans related to this kind of direct commercial and/or societal impact of their research.

Diversity and inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

## Cornell University

### Computer Science

#### Tenure-Track and Tenured Faculty Search

#### 2020-2021 Cornell Computer Science Tenure-Track and Tenured Faculty Search, Ithaca Campus

The Cornell University Department of Computer Science (CS) in the College of Computing and Information Science (CIS) has multiple faculty positions available at its Ithaca campus (tenured, tenure-track or lecturer). CS is ranked among the top



### Assistant Professor of Computer Science

*Emory University, Atlanta, Georgia*

The Computer Science Department at Emory University in Atlanta, Georgia invites applications for an Assistant Professor to begin Fall 2021. We seek outstanding candidates in Machine Learning, broadly defined, who complement and connect to current expertise in AI, HCI, HPC, NLP, and Data Science. Truly exceptional scholars at other ranks, and in other areas that enable novel collaborations, will receive full consideration, especially if they enhance Emory's mission of diverse and inclusive excellence.

Applicants must have a PhD in Computer Science or a closely related field. Successful candidates will join the vibrant Emory CS department with growing strengths in: *Intelligent Systems* (artificial intelligence, machine learning, natural language processing, information retrieval, text and data mining, human-computer interaction, and their applications); and *High-End Computing and Data* (quantum and extreme scale systems, big data storage and analytics, privacy and security).

Emory CS is a dynamic, close-knit department with high research activity in several areas, and a stellar faculty that is passionate about scholarship, teaching, and societal impact. The Department is committed to transforming the world through computing, prides itself on a family-friendly and supportive dual-career environment, and engages deeply with industry, alumni, and community. The CS Department is intensively engaged in efforts to broaden participation in computing and we especially encourage applications from women and members of groups underrepresented in computing. For additional information about the Department of Computer Science please see <http://www.cs.emory.edu>

Emory University is a highly ranked private institution engaged in outstanding research and education. A remarkably collegial spirit prevails across departments and schools, making the university a leader in collaborative interdisciplinary endeavors while advancing knowledge in fundamental and applied domains. Emory is highly ranked among America's *Best Employers for Women* and *Best Employers for Diversity*, and fosters a culture of inclusivity and cooperation. The campus is an integral part of the energetic Atlanta, GA metropolitan area, offering a variety of cultural, social, and recreational opportunities, a mild climate, and unmatched accessibility.

Applications comprising a cover letter, CV, research and teaching statements, and three letters of recommendation, should be submitted via Interfolio <https://apply.interfolio.com/79818>. In a separate statement, please also outline your interests in broadening participation and increasing diversity in computing. Informal inquiries are welcome via email to [cssearch-2020@emory.edu](mailto:cssearch-2020@emory.edu). Review of applications will begin December 1, 2020. Full consideration will be given to applications received up to at least 30 days after review begins, until the position is filled.

*Emory University is an equal employment opportunity and affirmative action employer. Women, minorities, people with disabilities and veterans are strongly encouraged to apply. Emory University is committed to student and faculty diversity, equity, and inclusion.*

computer science departments in the country (<http://www.cs.cornell.edu/>). Ithaca, NY is in the heart of the Finger Lakes region. Both Cornell and Ithaca offer a vibrant cultural life and a wide range of sporting and outdoor activities with the pleasures of both city and country close at hand.

Applications from all areas of computer science and related fields are welcome.

Faculty hired in these positions will be members of the Department of Computer Science, which spans the Ithaca and New York City campuses, but their teaching and research will be based in Ithaca. A separate application is needed to be considered for a Computer Science position at the New York City campus; please visit the website <https://tech.cornell.edu/jobs/> for further information about the New York City application process.

Tenured and tenure-track faculty must hold the equivalent of a Ph.D. Applicants must have demonstrated an ability to conduct outstanding research. Successful candidates are expected to pursue an active research program, to teach graduate and undergraduate courses, and to supervise graduate students.

To ensure full consideration, applications should be received by December 1, 2020, but will be accepted until all positions are filled.

Fostering an inclusive environment is a core value of the Computer Science Department and Cornell as a whole. In line with Cornell's historical commitment to educating " ... any person ... in any study...", we seek candidates who will create a climate that helps attract



## Lecturer in Computer Science

*Emory University, Atlanta, Georgia*

The Computer Science Department at Emory University in Atlanta, Georgia invites applications for a full-time faculty position as Lecturer to begin 2021. Appointments are for an initial period of three years with possibilities of renewals and promotions within the *Lecture Track*, to Senior Lecturer and Professor of Pedagogy. Lecture track faculty have full faculty governance rights and responsibilities. For details please see the Emory College LTF Guidelines: <http://college.emory.edu/faculty/faculty/review-and-promotion.html>

Emory CS is a dynamic, close-knit department with a stellar faculty, passionate about scholarship, teaching, and societal impact. The Department is committed to positively transforming the world through computing, prides itself on a family-friendly and supportive dual-career environment, and engages deeply with industry, alumni, and community. The CS Department is intensively engaged in efforts to broaden participation in computing, and we especially encourage applications from women and members of groups underrepresented in computing. For additional information about the Department of Computer Science, please see: <http://www.cs.emory.edu>.

Emory University is a highly ranked private institution engaged in leading-edge research and education. A remarkably collegial spirit prevails across departments and schools, making the university a leader in collaborative interdisciplinary endeavors while advancing knowledge in fundamental and applied domains. Emory is highly ranked among America's *Best Employers for Women* and *Best Employers for Diversity* and fosters a culture of inclusivity and cooperation. The campus is an integral part of the energetic Atlanta, GA metropolitan area, offering a variety of cultural, social, and recreational opportunities, a mild climate, and unmatched accessibility.

Applicants should have a PhD in Computer Science or a related discipline, and outstanding teaching, advising, and service credentials (or potential) related to our undergraduate programs. Responsibilities include 1) teaching five courses per year; 2) advising undergraduate students; 3) mentoring graduate student instructors; and 4) supporting the educational mission of the College through committees and program participation.

Applications consisting of a cover letter, CV, statement of teaching philosophy and career goals, evidence of teaching excellence, and a minimum of three letters of recommendation should be submitted via <https://apply.interfolio.com/79830>. In a separate statement, please also outline your interests in broadening participation and increasing diversity in computing. Informal inquiries are invited by email to [cslecturer-2020@emory.edu](mailto:cslecturer-2020@emory.edu). Review of applications will begin November 1, 2020. Full consideration will be given to applications received up to at least 30 days after review begins, until the position is filled.

*Emory University is an equal employment opportunity and affirmative action employer. Women, minorities, people with disabilities and veterans are strongly encouraged to apply. Emory University is committed to student and faculty diversity, equity, and inclusion.*

and is inclusive of all students, including students from historically underrepresented groups, and students who have overcome personal challenges. Applicants are asked to submit a Statement of Contribution to Diversity, Equity and Inclusion to describe their potential contributions to diversity and inclusion. See <http://facultydevelopment.cornell.edu/information-for-faculty-candidates/> for the university's commitment to diversity, inclusion and equity, including suggestions for what we are looking for in such statements, and see <https://cis.cornell.edu/diversity> for some CIS activities in this area.

Applicants should submit a curriculum vitae, a diversity statement, and brief statements of research and teaching interests, identify one or two top publications to which they have made significant contributions and arrange to have at least three reference letters submitted at: <https://academicjobsonline.org/ajojobs/16919>.

Inquiries about your application may be directed to [frecurit@cs.cornell.edu](mailto:frecurit@cs.cornell.edu)

We strongly encourage women and underrepresented minorities to apply. Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches.

Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

## Emory University

### *Assistant or Associate Professor - Quantitative Methodologist*

The Department of Quantitative Theory and Methods (QTM) at Emory University seeks up to two faculty with expertise in causal inference, data science, and/or mathematical modeling. Ideal candidates should have a Ph.D. in statistics, public policy, economics, machine learning, computer science or related fields and are both engaging in methodological innovation and applying these innovations to important disciplinary questions. The positions are tenure-track at the level of Assistant Professor or, for the extraordinary file, tenured at the Associate Professor level. Teaching load is competitive.

QTM is a new and rapidly growing interdisciplinary department at Emory building an intellectual community at the intersection of causal inference, data science, mathematical modeling, and analytic theory, with a focus on both methodological innovation and disciplinary application. The successful candidate must demonstrate excellence or the promise of excellence in both research and teaching, as well as an interest in contributing to and participating in QTM's intellectual mission. The candidate should have completed the Ph.D. by August 2021.

A complete application will consist of a cover letter, research statement, curriculum vitae, graduate transcript, teaching portfolio, writing sample, and three letters of recommendation. Please submit (along with other materials) a

brief statement that reflects upon your experience and vision regarding the teaching and mentorship of students from diverse backgrounds. **Application review will begin on October 26, 2020.** Applications received up to 30 days after review begins will receive full consideration. To apply for this position, visit <http://apply.interfolio.com/79099> and submit your materials free of charge through Interfolio.

Emory University is an Equal Opportunity/Affirmative Action/Disability/Veteran employer. The Department of Quantitative Theory and Methods, Emory College, and Emory University are all strongly committed to recruiting female and minority candidates. Women, minorities, persons with disabilities and veterans are encouraged to apply.

## EPFL

### *Faculty Position in Computer and Communication Sciences*

The School of Computer and Communication Sciences (IC) at EPFL invites applications for tenure-track faculty positions in all areas of computer and communication sciences. Some areas of particular interest this year include unconventional computing (e.g., applied quantum computing, DNA computing), programming languages and verification, and intelligent systems.

Senior faculty appointments may be possible.

We seek candidates with an outstanding academic record and a strong commitment to teaching and mentoring students.

EPFL offers its faculty excellent students from all over the world, competitive salaries, generous research support, and outstanding research infrastructure. Switzerland has an exceptionally high human development index and is consistently ranked top in economic competitiveness and innovation.

To apply, follow the application procedure at

<https://facultyrecruiting.epfl.ch/position/23691281>

You will be required to submit in PDF form a cover letter, a curriculum vitae including a publication list, brief statements of research and teaching interests, and contact information (name, postal address, and email) of 3 references for junior positions and at least 5 for senior positions.

Screening will start on **December 1, 2020**. Further questions can be addressed to:

**Prof. George Candea**

Chair of the Faculty Recruiting Committee  
School of Computer and Communication  
Sciences

[ic\\_erecruiting@epfl.ch](mailto:ic_erecruiting@epfl.ch)

For additional information on EPFL and IC, please visit: <https://www.epfl.ch> or <https://ic.epfl.ch>

EPFL is an equal opportunity employer and family friendly university. It is committed to increasing the diversity of its faculty. It strongly encourages women to apply.

## ETH Zurich

### *Assistant Professors (Tenure Track) of Computer Science*

The Department of Computer Science ([www.inf.ethz.ch](http://www.inf.ethz.ch)) at ETH Zurich invites applications for assistant professorships (tenure track) in computer science with focus on different aspects of Cyber Security, Software Engineering, and Programming Languages.

- Privacy
- Programming Languages/ Software Engineering
- Security of IT Infrastructure
- Trustworthy Software

Please apply for only one of the above areas as all applications will be jointly reviewed. Applicants should be strongly rooted in computer science, have internationally recognized expertise in their field and pursue research at the forefront of computer science. Successful candidates should establish and lead a strong research program. They will be expected to supervise doctoral students and teach both undergraduate and graduate level courses (in German or in English). Collaboration in research and teaching is expected both within the department and with other groups of ETH Zurich and related institutions.

Assistant professorships have been established to promote the careers of younger scientists. ETH Zurich implements a tenure track system similar to other top international universities.

Please apply online at: [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)

(application period starts on 15 October 2020)

Applications should include a curriculum vitae, a list of publications with the three most important ones marked, a statement of future research and teaching interests, the names of three references, and a description of the three most important achievements. The letter of application should be addressed to the **President of ETH Zurich, Prof. Dr. Joël Mesot**. The **closing date for applications is 30 November 2020**. ETH Zurich is an equal opportunity and family friendly employer, strives to increase the number of women professors, and is responsive to the needs of dual career couples.

## ETH Zurich

### *Professor or Assistant Professor*

The Department of Information Technology and Electrical Engineering ([www.ee.ethz.ch](http://www.ee.ethz.ch)) at ETH Zurich invites applications for the above-mentioned position.

The successful candidate is expected to develop a strong and visible research programme in the (broad) area of embedded systems. He or she has a strong background in areas such as cyber-physical systems, embedded systems, sensor networks, neuromorphic systems, biomedical embedded systems, systems on chip (SoC), human-computer interaction or related fields.

The new professor must be committed to innovative and engaging teaching

at the bachelor's level on cyber-physical systems/embedded systems and computer engineering as well as in advanced classes of the Master's programme on related topics such as hardware/software codesign of digital systems. Generally, at ETH Zurich undergraduate level courses are taught in German or English and graduate-level courses in English.

Assistant professorships have been established to promote the careers of younger scientists. ETH Zurich implements a tenure track system equivalent to other top international universities. The level of the appointment will depend on the successful candidate's qualifications.

Please apply online: [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)

Applications should include a curriculum vitae, a list of publications, a statement of future research and teaching interests, a description of the three most important achievements, and the names of five references. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Joël Mesot.** **The closing date for applications is 31 December 2020.** ETH Zurich is an equal opportunity and family-friendly employer strives to increase the number of women professors, and is responsive to the needs of dual-career couples.

## George Mason University

*Department of Computer Science*

*Instructional Faculty*

### **Department of Computer Science: Teaching-Track Assistant Professor**

The George Mason University Department of Computer Science within the Volgenau School of Engineering invites applications for multiple renewable-term, non-tenure-track Assistant Professor and Instructor positions beginning Fall 2021. George Mason University has a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff, and strongly encourages candidates to apply who will enrich Mason's academic and culturally inclusive environment.

#### **Responsibilities:**

Responsibilities include teaching undergraduate computer science courses as well as service duties associated with the department's undergraduate degree programs.

#### **Required Qualifications:**

Applicants for Assistant Professor positions must have received a PhD in computer science or a related field by the start date of the position. Applicants who have received an MS in computer science or a related field by the start date of the position will be considered for Instructor positions. Applicants should possess a strong commitment to and demonstrated excellence in teaching.

#### **Preferred Qualifications:**

While applicants in all areas of computer science will be given serious consideration, we are particularly interested in candidates

in the areas of computer science education, programming languages, data analytics, and software engineering. Preference will be given to candidates with teaching experience. Administrative and/or managerial experience is a plus.

**About the Department:** The Department of Computer Science has 46 tenured and tenure-track faculty and 15 teaching-track faculty with wide-ranging research interests, and strong research groups in cybersecurity, systems and networks, machine learning and data mining, artificial intelligence, and software engineering. The Department has seen a substantial increase in computer science majors as enrollment has grown from 550 undergraduates in 2012 to nearly 2,000 today. The department has over 130 PhD students and more than 350 graduate students enrolled in four MS programs. The Department has \$14.5 million in annual research expenditures, 14 recipients of the prestigious CAREER/Young Investigator Awards, four IEEE Fellows, and two ACM Fellows.

In conjunction with Amazon's decision to establish a second headquarters in Northern Virginia, the Commonwealth of Virginia announced a multi-year plan to invest in the growth of degree programs in computing, and George Mason University has committed to accelerate its plans to grow its capacity in computing and high-tech fields. Among the exciting initiatives being undertaken by the university are the launch of the Institute for Digital InnovAtion (IDIA), a university think tank and incubator to serve the digital economy, and the expansion of its Arlington Campus with a planned 400,000 square foot Digital InnovAtion Building. These initiatives

reflect hundreds of millions of dollars in new investment by Mason that will rapidly elevate Mason's already leading national position in computing and related areas. We also expect multiple joint faculty positions funded by Virginia's Tech Talent Investment Program.

For full consideration, applicants must apply for position number F40IAZ at <https://jobs.gmu.edu/>; complete and submit the online application; and upload a statement of professional goals including your perspective on teaching and research (to attach as 'Other Doc'), a complete CV with publications, a statement on what diversity and inclusion means to you (to attach as 'Other Doc'), and letters from three professional references (to attach as 'Other Doc'). The review of applications will begin December 1, 2020 and continue until the position is filled.

George Mason University is an equal opportunity/affirmative action employer, committed to promoting inclusion and equity in its community. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or veteran status, or any characteristic protected by law.

## Georgia Institute of Technology

### *Tenure-Track Faculty Positions*

The School of Computational Science and Engineering (CSE) in the College of Computing at the Georgia Institute of Technology invites applications for multiple openings at the Assistant Professor level

(tenure-track); exceptional candidates at the Associate Professor and Professor level also will be considered. CSE focuses on foundational research of an interdisciplinary nature that enables advances in science, engineering, medical, and social domains. Applicants are expected to develop and sustain a research program in one or more of our core areas: high-performance computing, scientific and numerical computing, modeling and simulation, discrete algorithms, and large-scale data analytics (including machine learning and artificial intelligence).

All areas of research will be considered, especially: scientific artificial intelligence (AI methods unique to scientific computing), urban computing (enabling effective design and operation of cities and urban communities), application-driven post-Moore's law computing, and data science for fighting disease. Applicants must have an outstanding record of research and a commitment to teaching.

Applicants are expected to engage in substantive research with collaborators in other disciplines. For example, current faculty have domain expertise and/or collaborations in computational chemistry; earth sciences; biomedical and health sciences; urban systems and smart cities; social good and sustainable development; materials and manufacturing; and others.

Georgia Tech is organized into six Colleges. The School of Computational Science and Engineering resides in the College of Computing along with the School of Computer Science and the School of Interactive Computing. Joint appointments with other Schools in the College of Computing as well as

Schools in other Colleges will be considered.

Applications should be submitted online through: <https://academicjobsonline.org/ajo/jobs/16901>. The application materials should include a full academic CV, a personal narrative on teaching and research, at least three references, one sample publication that is considered a very significant research contribution, and the names of 2-3 CSE faculty members closest to the applicant's research (see <https://www.cse.gatech.edu/people/faculty> for current faculty).

*For full consideration, applications are due by December 1, 2020.*

Georgia Tech is an Affirmative Action/Equal Opportunity Employer. Applications from women and under-represented minorities are strongly encouraged.

For more information about Georgia Tech's School of Computational Science and Engineering please visit: <http://www.cse.gatech.edu/>

## Georgia Institute of Technology

### *Tenured/Tenure Track Faculty Positions*

The School of Computer Science at the Georgia Institute of Technology (Georgia Tech) invites applications for several tenure track faculty positions at all ranks. We seek candidates in all areas who complement and enhance our current research strengths, and are especially interested this year in candidates whose research focus is in the broad areas of theoretical computer science, networking, and software engineering.

Georgia Tech is an equal education/employment opportunity institution dedicated to building a diverse community. We strongly encourage applications from women, underrepresented groups, individuals with disabilities, and veterans. Georgia Tech has policies to promote a healthy work-life balance and is aware that attracting faculty may require meeting the needs of two careers.

The School of Computer Science, one of four schools in the top-ten ranked College of Computing, focuses on research that makes computing and communication smart, fast, reliable, and secure, with research groups in computer architecture, databases, machine learning, networking, programming languages, security, software engineering, systems, and theory. Faculty in the school are leaders in a variety of Georgia Tech initiatives, including: the Algorithms and Randomness Center (ARC), the Center for Research into Novel Computing Hierarchies (CRNCH), the Institute for Data Engineering and Science (IDEaS), and the Institute for Information Security and Privacy (IISP). Successful applicants will also have opportunities, where appropriate, for joint or shared academic appointments with the newly formed School of Cybersecurity and Privacy within the College of Computing and collaborative research that spans disciplinary boundaries at Georgia Tech.

Georgia Tech is a top-ranked public research university situated in the heart of Atlanta, a diverse and vibrant city with multiple universities. Midtown Atlanta, where Georgia Tech is located, has been recognized as one of the 2016 Great Neighborhoods by the American Planning Association due to its liveliness, walkability, and many great

cultural and economic strengths. The Institute is a member of the University System of Georgia, the Georgia Research Alliance, and the Association of American Universities. Georgia Tech prides itself on its technology resources, collaborations, high-quality student body, and its commitment to diversity, equity, and inclusion.

Applications will be considered until open positions are filled. For full consideration, applicants are encouraged to submit their applications by December 15, 2020. Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their research interests. An application link will be made available soon.

All inquiries should be sent to [cs-apply@cc.gatech.edu](mailto:cs-apply@cc.gatech.edu).

## IMDEA Software Institute

### *Tenure-track Faculty Positions*

The IMDEA Software Institute invites applications for tenure-track (Assistant Professor) faculty positions. We are primarily interested in recruiting excellent candidates in the areas of Systems, including Distributed Systems, Embedded Systems, etc.; Data Science, including Machine Learning; Security and Privacy; Software Engineering; and Cyber-Physical Systems. Exceptional candidates in other topics within the general research areas of the Institute will also be considered. Tenured-level (Associate and Full Professor) applications are also welcome.

The primary mission of the IMDEA Software Institute is to perform research of excellence

at the highest international level in software development technologies. It is one of the highest-ranked institutions worldwide in its main topic areas.

### **Selection Process**

The main selection criteria are the candidate's demonstrated ability and commitment to research, the match of interests with the Institute's mission, and how the candidate complements areas of established strengths of the Institute. All positions require a doctoral degree in Computer Science or a closely related area, earned by the expected start date. Candidates for tenure-track positions will have shown exceptional promise in research and will have displayed an ability to work independently as well as collaboratively. Candidates for tenured positions must have an outstanding research record, recognized international stature, and demonstrated leadership abilities. Experience in graduate student supervision is also valued at this level.

Applications should be completed using the application form at <https://careers.software.imdea.org/>

Please select the reference "2020-09-faculty-call" at the beginning of the form. For full consideration, complete applications must be received by **December 1, 2020**, although applications will continue to be accepted until the positions are filled.

### **Working at the IMDEA Software Institute**

The Institute is located in the vibrant area of Madrid, Spain. It offers an ideal working environment, combining the best aspects of a

research center and a university department. Its researchers can focus on developing new ideas and projects, in collaboration with world-leading, international faculty, post-docs, and students. Researchers also have the opportunity (but no obligation) to teach university courses. The Institute offers institutional funding and also encourages its members to participate in national and international research projects. The working language at the Institute is English.

Salaries at the Institute are internationally competitive and established on an individual basis. They include social security provisions in accordance with existing national Spanish legislation, and in particular access to an excellent public health care system.

Further information about the Institute's current faculty and research can be found at <http://www.software.imdea.org>.

The IMDEA Software Institute is an Equal Opportunity Employer and strongly encourages applications from a diverse and international community and underrepresented groups. The Institute complies with the European Charter for Researchers.

## Note on COVID-19

The Institute continues working and hiring during the pandemic, while strictly adopting all recommended health safety measures, including working remotely as needed. The Institute actively monitors the evolution of the pandemic and interviews will be conducted remotely when necessary.

## Imperial College London

### *Research Assistant/Associate in Verification of Learning-enabled Autonomous Systems*

We are seeking to hire an outstanding Research Assistant/Associate to join the Verification of Autonomous Systems group.

We are interested in researchers who have a strong background in machine learning and neural networks, with experience in robustness or verification. A solid understanding of either mixed-integer linear programming, optimisation methods, or formal verification methods is also required.

In light of the present situation we will consider remote working; this can be discussed in further detail with the successful candidate.

To start as soon as possible until May 2022.

For more information and to apply, visit:

<https://www.imperial.ac.uk/jobs/description/ENG01412/research-assistantassociate-verification-learning-enabled-autonomous-systems>

## Indiana University

### *Luddy School of Informatics, Computing, and Engineering*

#### *Assistant Professor in Computer Science*

The Luddy School of Informatics, Computing, and Engineering at Indiana University (IU) Bloomington invites applications for a tenure track assistant professor position in Computer

Science to begin in Fall 2021. We are particularly interested in candidates with research interests in formal models of computation, algorithms, information theory, and machine learning with connection to quantum computation, quantum simulation, or quantum information science. The successful candidate will also be a Quantum Computing and Information Science Faculty Fellow supported in part for the first three years by an NSF-funded program that aims to grow academic research capacity in the computing and information science fields to support advances in quantum computing and/or communication over the long term. For additional information about the NSF award please visit:

[https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=1955027&HistoricalAwards=false](https://www.nsf.gov/awardsearch/showAward?AWD_ID=1955027&HistoricalAwards=false)

The position allows the faculty member to collaborate actively with colleagues from a variety of outside disciplines including the departments of physics, chemistry, mathematics and intelligent systems engineering, under the umbrella of the Indiana University funded "quantum science and engineering center" (IU-QSEc).

We seek candidates prepared to contribute to our commitment to diversity and inclusion in higher education, especially those with experience in teaching or working with diverse student populations. Duties will include research, teaching multi-level courses both online

and in person, participating in course design and assessment, and service to the School. Applicants should have a demonstrable potential for excellence in research and teaching and a PhD in Computer Science or a related field expected before August 2021.

Candidates should review application requirements, learn more about the Luddy School and apply online at: <https://indiana.peopleadmin.com/postings/9841>

For full consideration submit online application by December 1, 2020. Applications will be considered until the positions are filled. Questions may be sent to [sabry@indiana.edu](mailto:sabry@indiana.edu)

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

## Johns Hopkins University

### *Lecturer/Sr. Lecturer in Computer Science*

The Department of Computer Science at Johns Hopkins University seeks applicants for a full-time teaching position. This is a career-oriented, renewable appointment that is responsible for the development and delivery of undergraduate and graduate courses, depending on the candidate's background. These positions carry a

3-course load per semester, usually with only 2 different preps. Teaching faculty are also encouraged to engage in departmental and university service and may have advising responsibilities. Extensive grading support is given to all instructors. The university has instituted a non-tenure track career path for full-time teaching faculty culminating in the rank of Teaching Professor. Johns Hopkins is a private university known for its commitment to academic excellence and research. The Computer Science department is one of nine academic departments in the Whiting School of Engineering, on the beautiful Homewood Campus. We are located in Baltimore, MD in close proximity to Washington, DC, and Philadelphia, PA. See the department webpage at <https://cs.jhu.edu> for additional information about the department, including undergraduate and graduate programs and current course descriptions. Applicants for the position should have a Ph.D. in Computer Science or a closely related field. Demonstrated excellence in and commitment to teaching, and excellent communication skills are expected of all applicants.

Applications may be submitted online at <http://apply.interfolio.com/78726>. Questions may be directed to [lecsearch2020@cs.jhu.edu](mailto:lecsearch2020@cs.jhu.edu).

For full consideration, applications should be submitted by December 1, 2020. Applications will be accepted until the position is filled.

The Department is conducting a broad and inclusive search and is committed to identifying candidates who through their

teaching and service will contribute to the diversity and excellence of the academic community. The Johns Hopkins University is committed to active recruitment of a diverse faculty and student body. The University is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities and encourages applications from these and other protected group members. Consistent with the University's goals of achieving excellence in all areas, we will assess the comprehensive qualifications of each applicant.

## Johns Hopkins University

### *Tenure-Track Faculty, Department of Computer Science*

The Johns Hopkins University's Department of Computer Science seeks applicants for tenure-track faculty positions at all levels and across all areas of computer science. The department is particularly interested in applicants in the areas of computational biology, bioinformatics, human-computer interaction, and machine learning. The search will focus on candidates applying at the Assistant Professor level, however all qualified applicants will be considered.

The Department of Computer Science has 31 full-time tenured and tenure-track faculty members, 8 research and 6 teaching faculty members, 225 PhD students, over 200 MSE/MSSI students, and over 600 undergraduate students. There are several affiliated research centers and institutes including the Center for Computational Biology (CCB), the Laboratory

for Computational Sensing and Robotics (LCSR), the Center for Language and Speech Processing (CLSP), the JHU Information Security Institute (JHU ISI), the Institute for Data Intensive Engineering and Science (IDIES), the Malone Center for Engineering in Healthcare (MCEH), the Institute for Assured Autonomy (IAA), and other labs and research groups. More information about the Department of Computer Science can be found at [www.cs.jhu.edu](http://www.cs.jhu.edu) and about the Whiting School of Engineering at <https://engineering.jhu.edu>.

Applicants should submit a curriculum vitae, a research statement, a teaching statement, three recent publications, and complete contact information for at least three references.

Applications must be made on-line at <http://apply.interfolio.com/78946>.

While candidates who complete their applications by December 15, 2020 will receive full consideration, the department will consider applications submitted after that date. Questions may be directed to [fsearch2020@cs.jhu.edu](mailto:fsearch2020@cs.jhu.edu).

The department is conducting a broad and inclusive search and is committed to identifying candidates who through their research, teaching and service will contribute to the diversity and excellence of the academic community. More information on diversity and inclusion in the department is available at <https://www.cs.jhu.edu/diversity/>.

The Johns Hopkins University is committed to equal opportunity for its faculty, staff, and students. To that end, the

university does not discriminate on the basis of sex, gender, marital status, pregnancy, race, color, ethnicity, national origin, age, disability, religion, sexual orientation, gender identity or expression, veteran status or other legally protected characteristic. The university is committed to providing qualified individuals access to all academic and employment programs, benefits and activities on the basis of demonstrated ability, performance and merit without regard to personal factors that are irrelevant to the program involved.

## Kennesaw State University

### *Assistant Professor of Gaming*

#### *Department of Software Engineering and Game Development*

Kennesaw State University is now accepting applications for a nine-month, tenure track Assistant Professor of Gaming faculty position in the Department of Software Engineering and Game Development.

The position involves teaching, advising and maintaining an active research agenda. Primary teaching will include teaching Game Design and Development courses as well as other courses in computing as needed. We are especially interested in candidates with research and/or teaching background in, but not limited to, Computer Game Design and Development, Computer Graphics, Virtual Reality, Augmented Reality, HCI and Software Engineering. We currently have faculty with research interests spanning the above areas. Strong applicants in other areas of software engineering and game development and design will also be considered. Candidates

should be committed to excellence in teaching, research, and service.

An earned Ph.D. or terminal degree, or its foreign equivalent, in a computing, software engineering, or computer game design discipline or closely related field is required. ABD will be considered; however, terminal degree must be earned by August 1, 2021 as a condition of employment.

For more than 50 years, Kennesaw State University has been known for its entrepreneurial spirit and sense of community. Offering campuses in Marietta and Kennesaw, the university is located just north of Atlanta and combines a suburban setting with access to one of the country's most dynamic cities. As Georgia's third-largest university, Kennesaw State offers more than 100 undergraduate and graduate degrees, including a growing number of doctoral programs. Designated by the Board of Regents of the University System of Georgia as a comprehensive university, Kennesaw State is committed to becoming a world-class academic institution positioned to broaden its academic and research missions and expand its scope on a local, regional and national level.

For a full description of this position, application deadlines, and application procedures, visit <https://hr.kennesaw.edu/careers.php>.

Kennesaw State University, a member of the University System of Georgia, is an Equal Opportunity/Affirmative Action employer and does not discriminate on the basis of age, color, disability, national origin, race, religion, sex, sexual orientation, and/or veteran status. Georgia is an Open Records state.

## Kennesaw State University

### Assistant Professor

Kennesaw State University is now accepting applications for nine-month, tenure track Assistant Professor of Computer Science faculty positions in the Department of Computer Science beginning August 2021.

The department seeks candidates who strive for excellence in teaching and professional and scholarly achievements in the area of expertise. The successful candidate is expected to teach a broad range of courses in computer science at both graduate and undergraduate levels, as well as develop new courses in areas of expertise. They are also expected to plan and conduct research and develop an extramurally funded research program involving undergraduate and graduate students. Service to the department is required. We are especially interested in candidates with research and/or teaching background in, but not limited to, cyber and network security, data science and analytics, information retrieval, natural language processing, and graph algorithms. Strong candidates in other related research fields will also be considered. Candidates should be committed to excellence in teaching, research, and service.

Candidates must have an earned Ph.D. in computer science, a related field, or its foreign equivalent. ABD will be considered; however, terminal degree must be earned by August 1, 2021, as a condition of employment.

For more than 50 years, Kennesaw State University has been known for its entrepreneurial spirit and sense of

community. Offering campuses in Marietta and Kennesaw, the university is located just north of Atlanta and combines a suburban setting with access to one of the country's most dynamic cities. As Georgia's third-largest university, Kennesaw State offers more than 100 undergraduate and graduate degrees, including a growing number of doctoral programs. Designated by the Board of Regents of the University System of Georgia as a comprehensive university, Kennesaw State is committed to becoming a world-class academic institution positioned to broaden its academic and research missions and expand its scope on a local, regional and national level.

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## Lawrence Berkeley National Laboratory

### NESAP for Data Postdoctoral Fellow

The NERSC Supercomputing center at Berkeley Lab seeks highly motivated postdocs to join the NERSC Exascale Science Application Program (NESAP). NESAP postdocs collaborate with scientific teams to enable the solution of deep, meaningful problems across all

program areas funded by the Department of Energy Office of Science.

Apply at <http://50.73.55.13/counter.php?id=187453>

## Massachusetts Institute of Technology

### Assistant Professor

The Department of Brain & Cognitive Sciences (<http://bcs.mit.edu>), in collaboration with the McGovern Institute for Brain Research, the Picower Institute for Learning and Memory, and the Schwarzman College of Computing at MIT, is looking to hire a tenure-track faculty member at the assistant professor level or higher. The Department of Brain and Cognitive Sciences offers supportive mentorship to new faculty, an exceptional environment for scientific inquiry, and a strong commitment to an inclusive, welcoming culture. Applications from underrepresented minorities will be given our highest consideration.

We encourage applications from candidates who aim to understand natural intelligence by building artificially intelligent systems. We seek candidates with a diverse range of computational tools and methods, including (but not limited to) machine learning, computer vision, robotics, probabilistic modeling, dynamical systems, planning, programming languages, and natural language processing. Candidates from computer science, engineering or related

backgrounds that seek to develop collaborations with neuroscientists and cognitive scientists are particularly encouraged to apply. This position will have an affiliation with the new MIT Schwarzman College of Computing and the MIT EECS department.

Successful applicants are expected to develop and lead independent, internationally competitive research programs and to share in our commitment to excellence in undergraduate and graduate education by teaching courses and mentoring graduate and undergraduate students. PhD must be completed by start day of employment and some postdoctoral training is preferred.

Please submit application materials – cover letter, CV, statement of research and teaching interests and representative reprints – online at <https://academicjobsonline.org/ajo/jobs/16758>.

In addition, candidates should provide a statement regarding their views on diversity, inclusion, and belonging, including past and current contributions as well as their vision and plans for the future in these areas.

To help direct the application, applicants should select “computational approaches to understanding intelligence” from the drop-down list on the application web page. In addition, please arrange to have three letters of recommendation submitted online. All application materials are due by midnight (EST) on **December 1, 2020**.

*MIT is an equal opportunity, affirmative action employer. All qualified applicants*

*will receive consideration for employment regardless of race, color, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. We will take affirmative action to ensure that individuals historically discriminated against by race or gender are represented in our workforce and promoted within our institution.*

## Massachusetts Institute of Technology

Cambridge, MA

### Faculty Positions

The Massachusetts Institute of Technology (MIT) Department of Electrical Engineering and Computer Science (EECS) seeks candidates for faculty positions starting in July 1, 2021, or on a mutually agreed date thereafter. Appointment will be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment may be possible. Faculty duties include teaching at the undergraduate and graduate levels, research, and supervision of student research. Candidates should hold a Ph.D. in electrical engineering and computer science or a related field by the start of employment. We will consider candidates with research and teaching interests in any area of electrical engineering and computer science.

Candidates must register with the EECS search website at <https://school-of-engineering-facultysearch.mit.edu/eeecs/>, and must submit application

materials electronically to this website. Applications must include a cover letter, curriculum vitae, 2–3-page statement of research and teaching interests and goals. In addition, candidates should provide a statement regarding their views on diversity, inclusion, and belonging, including past and current contributions as well as their vision and plans for the future in these areas. Each application should include the names and addresses of three or more individuals who will provide letters of recommendation. Letter writers should submit their letters directly to MIT, preferably on the website or by mailing to the address below. Complete applications should be received by December 1, 2020. Applications will be considered complete only when both the applicant materials and **at least three letters of recommendation are received**.

**It is the responsibility of the candidate to arrange reference letters to be uploaded at <https://school-of-engineering-faculty-search.mit.edu/eeecs/> by December 1, 2020.**

Send all materials not submitted on the website to:

Professor Asu Ozdaglar  
Department Head, Electrical Engineering and Computer Science  
Massachusetts Institute of Technology  
Room 38-403  
77 Massachusetts Avenue  
Cambridge, MA 02139

M.I.T. is an equal opportunity/affirmative action employer.

## Massachusetts Institute of Technology

### *Tenure-track Assistant Professor Level Faculty Member*

The Massachusetts Institute of Technology (MIT) Sloan School of Management and MIT Schwarzman College of Computing in Cambridge MA, invite applications for a tenure-track faculty member to start July 1, 2021 or on a mutually agreed date thereafter. The search is for a candidate to be hired at the assistant professor level or higher commensurate with experience. The MIT Sloan School of Management and Schwarzman College of Computing offer supportive mentorship to new faculty, an exceptional environment for scientific inquiry, and a strong commitment to an inclusive, welcoming culture. Applications from under-represented minorities will be given our highest consideration.

We encourage applications from candidates whose research focuses on the broader consequences of the changing digital and information environment, market design, digital commerce and competition, as well as economic and social networks. Applicants should demonstrate the potential for research and teaching excellence building on growing the intellectual connections between computer science, data science, social science, and humanities, in order to bring a better conceptual framework for understanding social and economic implications, ethical dimensions, and regulation of these technologies. We are particularly interested in candidates from diverse fields who can build a strong methodological research base and contribute impactful insights on the interplay between

computing systems and our understanding of individuals and societal institutions.

Faculty duties will include teaching undergraduate and graduate level courses and conducting research. Applicants should possess a PhD in Computer Science, Data Science, Operations Management, Economics, Marketing or other related field by the beginning of employment. The successful applicant will have a shared appointment in both the Sloan School of Management and the Schwarzman College of Computing, in either the Department of Electrical Engineering and Computer Science (EECS), or in the Institute for Data, Systems, and Society (IDSS).

Applications must include a cover letter, an up-to-date curriculum vita, three letters of recommendation, a personal statement describing research experience and aspirations, and a personal statement describing teaching aspirations and experience. Research papers should be included if available. In addition, candidates should provide a statement regarding their views on diversity, inclusion, and belonging, including past and current contributions as well as their vision and plans for the future in these areas.

***Please submit all material via the link below by December 1, 2020.***

<https://apply.interfolio.com/79900>

MIT is an equal opportunity employer committed to building a culturally diverse intellectual community, and strongly encourages applications from women and underrepresented minorities.

## Milwaukee School of Engineering

### *Computer Science and Software Engineering Faculty - All Ranks*

The Electrical Engineering and Computer Science (EECS) department at the Milwaukee School of Engineering (MSOE) seeks applicants to fill multiple computer science (CS) and software engineering (SE) faculty positions at all ranks. MSOE expects, rewards, and supports a strong primary commitment to excellence in teaching. Faculty enjoy small class sizes and hands-on labs as well as continuous improvement and sustained professional development. Among the department's strengths are strong partnerships with numerous businesses and academic institutes, which guide applied projects, undergraduate research, and curriculum development.

To view the full advertisement, receive application instructions, and apply, please visit <http://www.milwaukeejobs.com/apply/add/43466542>.

It is the policy of MSOE to provide equal employment opportunity to all individuals regardless of their race, ethnicity, color, creed, religion, sex, age, national origin, physical or mental disability, military and veteran status, sexual orientation, gender identity, genetic characteristics, marital status or any other characteristic protected by local, state or federal law. This policy applies to all jobs at the University and to all the terms, benefits, and conditions of employment/enrollment.

## Mississippi State University

### *Faculty Positions in Computer Science and Engineering*

The Department of Computer Science and Engineering (<http://www.cse.msstate.edu>) is seeking one new tenure-track faculty at the rank of Assistant Professor, Associate Professor, or Professor in the area of Cybersecurity. Outstanding candidates would be eligible for an appointment as the Mary Lyn and Niles Moseley Endowed Chair of Cyber Security.

Mississippi State University is a comprehensive land-grant institution with over 22,000 students and 1,300 faculty members. The Department of Computer Science and Engineering offers a B.S. in Computer Science, Software Engineering, and Computer Engineering. It also offers an M.S. in Computer Science and Cyber Security and Operations, and a Ph.D. in Computer Science. In the last fiscal year, department's research expenditures totaled approximately \$10 million, and the university as a whole is ranked 60th among U.S. institutions in computer science expenditures.

Candidates for this position are expected to hold a Ph.D. in Computer Science or closely related field (ABDs may be considered). Rank will be commensurate with experience and qualifications. Preferred qualifications include teaching and research experience, a substantial record of peer-review publications, and demonstrated ability to secure external funding. However, recent graduates with exceptional academic credentials are encouraged to apply. Preference will be

given to individuals with a track record of interdisciplinary research collaboration.

Candidates must apply at: <http://explore.msujobs.msstate.edu/500522> and attach a cover letter, curriculum vitae, names, and contact information for at least three professional references, and a statement (limited to three pages) that describes the research and educational interests. Review of applications has begun and will continue until the position is filled.

MSU is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, ethnicity, sex (including pregnancy and gender identity), national origin, disability status, age, sexual orientation, genetic information, protected veteran status, or any other characteristic protected by law. We always welcome nominations and applications from women, members of any minority group, and others who share our passion for building a diverse community that reflects the diversity in our student population.

## Mississippi State University

### *Faculty Positions in Computer Science and Engineering*

The Department of Computer Science and Engineering (<http://www.cse.msstate.edu>) is seeking to fill one open position for a tenure-track faculty member at the Assistant/Associate Professor level. Exceptional candidates in all areas will be considered.

Mississippi State University is a comprehensive land-grant institution with

over 22,000 students and 1,300 faculty members. The Department of Computer Science and Engineering offers a B.S. in Computer Science, Software Engineering, and Computer Engineering. It also offers an M.S. in Computer Science and Cyber Security and Operations, and a Ph.D. in Computer Science. In the last fiscal year, department's research expenditures totaled approximately \$6 million dollars.

Candidates for this position are expected to hold a Ph.D. in Computer Science or closely related field (ABDs may be considered). Rank will be commensurate with experience and qualifications. Preferred qualifications include teaching and research experience, a substantial record of peer-review publications, and demonstrated ability to secure external funding. However, recent graduates with exceptional academic credentials are encouraged to apply. Preference will be given to individuals with a track record of interdisciplinary research collaboration.

Candidates must apply at: <http://explore.msujobs.msstate.edu/cw/en-us/job/500652?ApplicationSubSourceID=> and attach a cover letter, curriculum vitae, names and contact information for at least three professional references, and a statement (limited to three pages) that describes research and educational interests. Review of applications will begin October 28, 2020 and will continue until the position is filled.

MSU is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, ethnicity, sex

(including pregnancy and gender identity), national origin, disability status, age, sexual orientation, genetic information, protected veteran status, or any other characteristic protected by law. We always welcome nominations and applications from women, members of any minority group, and others who share our passion for building a diverse community that reflects the diversity in our student population.

## Muhlenberg College

*Assistant or Associate Professor of  
Computer Science*

The Muhlenberg College Department of Mathematics and Computer Science invites applications for a tenure-track position in computer science at the assistant or associate professor level to begin in the fall of 2021. A Ph.D. in Computer Science or a closely related field is required by August 2021 and all areas of specialty will be considered. As an equal opportunity employer, Muhlenberg College is committed to recruiting and retaining outstanding faculty and staff from racial and ethnic groups that have been traditionally underrepresented in higher education.

Muhlenberg College is a highly-selective liberal arts institution of 2,200 students located in Allentown, PA, about 50 miles north of Philadelphia and 90 miles west of New York City. Allentown is a diverse city of 116,000 and anchors the third-largest metropolitan area in Pennsylvania.

The most important part of a Muhlenberg professor's job is teaching undergraduates.

The teaching load for this position is 3 courses per semester. An ongoing research program is also expected of tenure-track faculty. Start-up funds are available to incoming faculty for their research and grants are available to support faculty scholarship during the summer.

More details about this position, a list of requested application materials, and application submission instructions can be found at

<https://www.muhlenberg.edu/offices/hr/jobs.html>

Complete applications received by Sunday November 1, 2020 will receive full consideration.

Please send any questions you have about this position to the search chair Dr. William Gryc at [wgryc@muhlenberg.edu](mailto:wgryc@muhlenberg.edu).

## NEC Laboratories America, Inc

*Researcher - Machine Learning*

The Machine Learning Department of **NEC Laboratories America, Inc.**, in Princeton, NJ, has openings for researchers with a passion for developing the next generation of machine intelligence. Expertise in machine learning with a proven track record of original research as well as a keen sense for developing practical applications are prerequisites for this position.

Our Machine Learning group has been at the forefront of research in such areas as deep learning, support vector machines, and semantic analysis for almost two decades. Many technologies developed in our group

have been released as innovative products and services of NEC, such as systems for recruiting, surveillance, inspection of manufactured goods, and digital pathology. In addition to contributing to NEC's business, our research is published in premier venues. Among the challenges we are tackling now are how to move machine learning to more abstract reasoning and how this can enable new applications in smart manufacturing, safe cities, and personalized health care.

<http://www.nec-labs.com/research-departments/machine-learning/machine-learning-home>

**Requirements:**

- PhD in computer science, statistics, or equivalent.
- Research experience in machine learning with strong publication record.
- Strong algorithm and numeric computation background.
- Programming experience in Python, Lua, C++, or other languages.
- Experience with deep learning libraries and platforms a plus, e.g. PyTorch, TensorFlow, or Caffe.

For more information about NEC Labs access <http://www.nec-labs.com> and submit your CV and research statement through our career center at [https://www.appone.com/MainInfoReq.asp?R\\_ID=3206183](https://www.appone.com/MainInfoReq.asp?R_ID=3206183)

Equal Opportunity Employer

## New College of Florida

### *Assistant Professor in Data Science/ Computer Science*

New College of Florida invites applications for a tenure-track Assistant Professor position in Data Science/Computer Science starting in August 2021. A Ph.D. in computer science or a related field by the start date is required. We seek an individual to contribute to a new undergraduate program in Data Science in a liberal arts context, and to potentially participate in the Data Science MS program. The successful candidate must be committed to excellence in teaching and research.

The new undergraduate program in Data Science aims to equip students with skills in Computer Science, Mathematics and Statistics as well as practical experience in working with and programming against large datasets to extract meaning from data. Interface with other disciplines in Humanities or Social Sciences at New College is also part of the curriculum. Candidates must be passionate about designing and teaching courses and guiding research at the undergraduate level in a highly interdisciplinary setting. Candidates should be interested in teaching a variety of courses in this trending discipline including but not limited to Python programming, Databases for Data Science, Algorithms for Data Science, Software Engineering for Data Science, Distributed Computing, and Artificial Intelligence and Machine Learning. Data Science / Computer Science faculty may also have a joint appointment in the Data Science MS program and teach similar courses at the graduate level. In addition to teaching,

the successful applicant will be capable of establishing or maintaining a productive research program.

For more information and to apply visit [www.ncf.edu/employment](http://www.ncf.edu/employment).

New College is an EOE.

## New York University

### *Postdoctoral associate, Machine Listening*

The Music and Audio Research Laboratory (*MARL*) welcomes applications for a postdoctoral associate position on the Spatial Sound Scene Description (*S3D*) project. S3D is a new initiative, funded by the National Science Foundation, that aims to develop computational approaches to describe sound sources in real environments by their category (e.g. dog, truck), location, direction of motion and speed. Our approach mixes innovative data collection and machine listening solutions including probabilistic synthesis, multi-modal annotation, self-supervised representation learning and structured classification.

For more information and to apply to this job, visit our [website](#).

## North Carolina State University

### *Department of Computer Science*

#### *Theoretical Computer Science*

The Department of Computer Science at North Carolina State University (NCSU) seeks to fill a tenure-track faculty position in theoretical computer science (TCS) with

an expected start date of August 16, 2021. Candidates with additional expertise in algorithms, graph theory, computational geometry, experimental algorithmics, topological data analysis, or in the theoretical aspects of quantum computing, cryptography, machine learning, or complex systems, are of particular (but not exclusive) interest. While the department expects to hire at the Assistant Professor level, candidates with exceptional research records may be considered for Associate or Full Professor positions.

A successful candidate must have a strong commitment to academic and research excellence, and an outstanding research record commensurate with the expectations of a major research university. Required credentials include a doctorate in Computer Science or a related field.

The Department, part of NC State's College of Engineering, is one of the largest and oldest in the country. The department's research expenditures and recognition have been growing steadily. For example, we have one of the largest concentrations in the country of prestigious NSF Early Career Award winners (30 of our current or former faculty have received one). Further, we are widely recognized as a highly diverse department, having the most female tenure-track faculty of any computer science department in the country.

NC State is located in Raleigh, the capital of North Carolina, which forms one vertex of the world-famous Research Triangle Park (RTP). RTP is an innovative environment, both as a metropolitan area with one of the most

diverse industrial bases in the world, and as a center of excellence promoting technology and science. The Research Triangle area is routinely recognized in nationwide surveys as one of the best places to live in the U.S. We enjoy outstanding public schools, affordable housing, farmer's markets and festivals, and great weather - all in proximity to the mountains and the seashore.

Applications will be reviewed as they are received, with a review deadline of December 1, 2020, and continued on-going review past that date. The position will remain open until a suitable candidate has been identified.

Applicants should submit the following materials online at <http://jobs.ncsu.edu> (reference position number - 00001096) cover letter, curriculum vitae, research statement, teaching statement, and names and complete contact information of four references, including email addresses and phone numbers. Candidates can obtain information about the department and its research programs, as well as more detail about the position advertised here at <http://www.csc.ncsu.edu/>. Inquiries may be sent via email to: [csc-tcs-search@lists.ncsu.edu](mailto:csc-tcs-search@lists.ncsu.edu)

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.

Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148.

Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. If their highest degree is from an institution outside of the U.S., final candidates are required to have their degree verified at [www.wes.org](http://www.wes.org). Degree must be obtained prior to start date.

NC State University participates in E-Verify. Federal law requires all employers to verify the identity and employment eligibility of all persons hired to work in the United States.

## Northwestern University

### *Computer Science Faculty of Instruction and Lecturer Positions*

Northwestern University is pursuing an ambitious commitment to grow and transform Computer Science (CS). As part of transforming and scaling computer science education, we seek outstanding candidates for non-tenure track teaching faculty, with a clear passion to make a difference in Computer Science and who are excited by the opportunity to help build the future of CS at a great university.

As the demand for CS education has grown well beyond the boundaries of traditional CS majors, Northwestern CS has continued to invest in new courses, non-major pathways, and new joint degrees to broaden the reach and quality of computing education. The just-launched *MBAi joint program* with the Kellogg School of Management joins the MMM program, joint Ph.D. programs with the School of Communications and the School of Education and Social Policy in a growing portfolio of programs innovating at the intersections.

We are focused on adding excellent teaching faculty with a special focus on the following areas: Artificial Intelligence, Machine Learning, Data Science, Software Engineering and Human-Computer Interaction, though excellent candidates from all areas are encouraged to apply. The successful applicant will be an extraordinary teacher and mentor, combining strong and deep knowledge of Computer Science with a passion to convey that knowledge to a broad variety of Northwestern students. They will go well beyond delivering entry level service courses to create a learning environment that motivates students to enroll, to work, to learn, and to find new applications of Computer Science that shape their careers and the world beyond. This is a multi-year, renewable position.

To be eligible for the faculty of instruction positions, applicants should have earned a Ph.D. in Computer Science or a closely related field. For the lecturer position, a Masters in Computer Science and a strong, demonstrable track record of Computer Science teaching is required. Candidates will be considered at the Assistant, Associate, or Full level depending on experience. Faculty of Instruction typically teach two courses per term and are involved in advising students and in departmental curriculum development.

Applicants should submit (1) a cover letter, (2) a curriculum vitae, (3) three to five letters of reference which can speak to the applicant's teaching abilities, (4) statement of teaching philosophy, (5) recent teaching evaluations (if available), (6) a teaching demonstration video (if available). Upload

instructions are found at <https://www.mccormick.northwestern.edu/computer-science/resources/careers-computer-science.html>

For general questions about the search or application assistance post submission, contact [facsearch@cs.northwestern.edu](mailto:facsearch@cs.northwestern.edu). Review of materials will begin on December 1, 2020. Applications received after that date will be considered on a rolling basis.

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, underrepresented racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

## Northwestern University

### *Postdoctoral Fellowships in Computer Science*

Applicants for the **Postdoctoral Fellowships in Computer Science** are welcome from all Computer Science research disciplines, and will continue to advance their research agendas, expand their research community, and strengthen their teaching and mentoring capabilities.

The **Postdoctoral Fellowships in CS+X** are a result of a partnership with Northwestern's Weinberg School of Arts and Sciences and are focused on growing the boundaries of Computer Science, including by providing students and faculty across the University with education in areas of computation that will help them in their work. CS+X Fellows

will work across disciplines to develop advanced courses for non-CS students who are working in fields where computation is becoming more and more important. These Teaching Fellows will also be part of the process identifying areas of intersection and impact in drawing computational thinking into new research areas.

The teaching load for Postdoctoral Fellows is one course per quarter over the three-quarter academic year (including an advanced-level course in the candidate's research area). These are two-year positions, with the possibility of renewal for an additional year.

We encourage candidates to send applications as soon as possible; appointments begin Fall 2021 quarter. Applications received by January 31, 2021 will be given full consideration; however, the positions will remain open until filled. Applicants should submit (1) a cover letter, (2) a curriculum vitae, (3) three to five letters of reference, (4) statement of research goals, (5) statement of teaching philosophy, and (6) two representative publications. For general questions about the search or application assistance post submission, contact [facsearch@cs.northwestern.edu](mailto:facsearch@cs.northwestern.edu)

Visit our department page to learn more and apply. <https://www.cs.northwestern.edu/>

## Northwestern University

### *Postdoctoral Fellows*

Kellogg School of Management (Northwestern) is seeking to fill **2 post-doctoral fellow positions**. Candidates will be housed in the Center for Science of

Science and Innovation, directed by Prof. Dashun Wang. We have a broadly defined research agenda, exploring diverse topics related to Science of Science, Innovation, AI, Computational Social Science, and Network Science. Our priority is to attract technically strong researchers with a proven record of publications and completed projects. The initial term of these positions is one year with a possibility for renewal. The target start date is flexible.

### Qualifications

- PhD in fields including computational social science, complex systems, physics, computer science, network science, economics, applied mathematics, or other related fields
- Prior experience of programming and working with large-scale data
- Participation and activity in the scientific community
- Strong communication skills
- The ability to work in a highly collaborative and interdisciplinary environment

Applications should be submitted on-line: <https://facultyrecruiting.northwestern.edu/apply/OTax>

Review of applications will begin around the end of November. Candidates are encouraged to get in touch with us [cssi@kellogg.northwestern.edu](mailto:cssi@kellogg.northwestern.edu) with questions, especially if related to potential delays/uncertainties caused by COVID.

## NYU Shanghai

### *Computer Science, Tenured/Tenure-track*

NYU Shanghai is currently inviting applications for a Tenured or Tenure-track position in Computer Science Theory. The search is not restricted to any rank and outstanding candidates at all levels are encouraged to apply. We seek candidates who have completed a Ph.D. in Computer Science, or a closely related discipline. We invite candidates with a strong research record in CS theory to apply, including research in algorithms, data structures, computational complexity, cryptography, learning theory, and so on.

Terms of employment at NYU Shanghai are comparable to U.S. institutions with respect to research start-up funds and compensation, and they include housing subsidies and educational subsidies for children. Faculty may also spend time at NYU New York and other sites of the NYU Global Network, engaging in both research and teaching.

### **About NYU Shanghai:**

NYU Shanghai is the third degree-granting campus within New York University's global network. It is the first higher education joint venture in China authorized to grant degrees that are accredited in the U.S. as well as in China. All teaching is conducted in English. A research university with liberal arts and science at its core, it resides in one of the world's great cities with a vibrant intellectual community. NYU Shanghai recruits scholars of the highest caliber who are committed to NYU's global vision of transformative teaching and innovative research and who embody the global society in which we live.

NYU's global network includes degree-granting campuses in New York, Shanghai, and Abu Dhabi, complemented by eleven additional academic centers across five continents. Faculty and students circulate within the network in pursuit of common research interests and cross-cultural, interdisciplinary endeavors, both local and global.

### **Qualifications**

**Application Instructions** Applicants will submit a cover letter, curriculum vitae, statement of research, and a statement of teaching interests. Additionally, applicants will be prompted to enter the names and email addresses of at least three referees. Each referee will be contacted to upload a reference letter through Interfolio.

Applications may be received until February 1, 2021. Review of applications will begin on January 1, 2021. Applications are received via Interfolio at [apply.interfolio.com/80168](https://apply.interfolio.com/80168). If you have any questions, please email the NYU Shanghai NY Office of Faculty Recruitment [shanghai.faculty.recruitment@nyu.edu](mailto:shanghai.faculty.recruitment@nyu.edu).

### **Equal Employment Opportunity Statement**

NYU Shanghai is an equal opportunity employer committed to equity, diversity, and social inclusion. We strongly encourage applications from under-represented individuals in the profession, across color, creed, race, ethnic and national origin, physical ability, and gender and sexual identity. NYU Shanghai affirms the value of differing perspectives on the world as we strive to build the strongest possible university with the widest reach.

## Oakland University

### *Tenure Track Assistant Professor in Computer Science*

The Department of Computer Science and Engineering needs to fill a tenure-track assistant professor position (<https://jobs.oakland.edu/postings/19690>). The department is looking for candidates in the broad area of Data Science, although outstanding candidates in other related areas will also be considered. The position will begin on August 15, 2021. Applicants must have completed a Ph.D. in Computer Science, or a closely related field by the appointment date. Candidates must show exceptional promise in both research and teaching. Candidates should have an appreciation of and commitment to the value of diversity and working with a diverse faculty and student body.

Review of applications will begin on November 15, 2020 and continue until the position is filled. Applicants should submit a letter of intent, a statement of research, a statement of teaching, resume, a diversity statement and three references. The diversity statement will describe their interest or efforts in furthering diversity and inclusion e.g., through mentoring, pedagogy, activism, faculty recruitment/retention or research on issues related to diversity and social equality. The teaching statement should include a list of undergraduate and graduate courses that the applicant will be willing to teach as well as outlines of two courses that the applicant would like to introduce. Information about the current courses offered by the department

is available on the departmental website at <http://www.cse.secs.oakland.edu>. The candidates should upload their application at <http://jobs.oakland.edu/postings/19690>. The department offers BS degrees in Computer Science and in Information Technology, MS degrees in Computer Science, in Cybersecurity and in Software Engineering and Information Technology, and a Ph.D. in Computer Science and Informatics. For information about the department and Oakland University, please visit the respective homepages.

Oakland University is a nationally recognized doctoral university of high research activity located on 1,443 acres of scenic land in the cities of Rochester Hills and Auburn Hills in Oakland County, Michigan. The University has 142 bachelor's degree programs and 138 graduate degree and certificate programs. Academics include programs in the College of Arts and Sciences, School of Business Administration, School of Education and Human Services, School of Engineering and Computer Science, School of Health Sciences, School of Medicine, and School of Nursing.

Creating and maintaining a diverse, equitable and inclusive campus is a strategic priority for Oakland University. To this end, we are seeking applications from individuals who are interested in and committed to supporting our institutional values in diversity, equity and inclusion. It is the policy of Oakland University that there shall be no discrimination on the basis of race, sex, color, religion, national origin or ancestry, age, height, weight, familial status, marital status, disability, creed, sexual orientation, veteran status

or other prohibited factors in employment, admissions, educational programs or activities. Oakland University, as an equal opportunity/affirmative action institution, is committed to compliance with federal and state laws prohibiting discrimination, including Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. Inquiries or complaints may be addressed to Oakland University, Director of the Office of Diversity, Equity and Inclusion, Oakland Center Suite 150, 312 Meadow Brook Dr., Rochester, Michigan 48309-4401.

## Oberlin College

### *Assistant Professor of Computer Science*

The Computer Science Department at Oberlin College invites applications for Two full-time, tenure track faculty positions in the College of Arts and Sciences to begin Fall 2021.

To be assured of consideration, submit a letter of application, a curriculum vitae, teaching and research statements, graduate academic transcripts, and at least three recent letters of reference, with one of those letters addressing teaching, submitted electronically to Academic Jobs Online. Candidates who work in Machine Learning, Artificial Intelligence are encouraged to

Apply at <https://academicjobsonline.org/ajol/jobs/17108>

Apply to the position Open to all Areas at <https://academicjobsonline.org/ajol/jobs/17109> by December 7, 2020.

Questions about the position can be addressed to the Chair of Computer Science: Robert Geitz [bob.geitz@oberlin.edu](mailto:bob.geitz@oberlin.edu) or 440-775-8386.

## Old Dominion University

### *Assistant Professor of Computer Science in Data Science*

The Department of Computer Science at Old Dominion University is seeking a full-time tenure-track faculty member with expertise in any one of the following areas: data science and cybersecurity. Outstanding candidates in other areas of computer science will also be considered. The appointment is expected to be made at the Assistant Professor rank with an anticipated start date of July 2021. At the time of appointment, the candidate must have a Ph.D. or equivalent in computer science or related discipline.

Requirements are the potential for success in teaching, research, and obtaining external research grants. Consideration will also be given to candidates demonstrating a potential for collaboration with the current Computer Science faculty or for inter-disciplinary collaboration with other researchers at ODU.

The Department of Computer Science currently has 19 tenured and tenure-track faculty, 9 teaching faculty, and several adjunct faculty. The faculty has research grant support from agencies such as NSF, NIH, NASA, NEH, the Mellon Foundation, DoD, and DoE. ODU Computer Science ranks in the top 25% in terms of R&D expenditures among Computer Science departments.

Current research areas span a wide range, with established strengths in high performance scientific computing, data science, bioinformatics, parallel mesh generation, real-time medical image computing, web science, mobile computing, cyber-physical systems, and large-scale video analytics (see <http://cs.odu.edu/> for more information). A vibrant graduate program enrolls 150 graduate students (50 Ph.D. and 100 M.S.) and the undergraduate program has more than 800 majors. Excellent collaborative research opportunities are available at ODU's Center for Cybersecurity Education & Research, and at nearby NASA Langley Research Center, DoE's Thomas Jefferson National Accelerator Facility, National Institute of Aerospace, Eastern Virginia Medical School and Sentara Hospital with state-of-the-art operating room suite for image guided surgery, and the Virginia Modeling Analysis and Simulation Center.

Located in Norfolk, Virginia, Old Dominion University ([www.odu.edu](http://www.odu.edu)) is a state-supported Carnegie Doctoral/Research Extensive institution with approximately 25,000 students and over 830 full-time faculty. Norfolk is a culturally-rich, historic city and a major international maritime center in Hampton Roads, a seven-city metropolitan area of over 1.5 million people.

ODU and the College of Sciences are committed to inclusive excellence, recognizing that diversity enhances and enriches our educational mission, employment experience, and community engagement. We seek candidates whose research, teaching, and/or service

experiences have prepared them to fulfill our commitment to inclusion. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.

Interested candidates should visit <https://jobs.odu.edu/> to submit a curriculum vitae, a statement of research activities and future research plans, a statement of teaching philosophy, unofficial graduate transcripts, and contact information for four references. For additional information regarding the positions, please contact to Dr. Michael Nelson, Computer Science Faculty Search Committee Chair. The review of applications will begin December 1, 2020 and continue until positions are filled.

Old Dominion University is an equal opportunity, affirmative action institution. Minorities, women, veterans and individuals with disabilities are strongly encouraged to apply.

## Old Dominion University

### *Computer Science Lecturer*

The Department of Computer Science at Old Dominion University is inviting applicants for one Lecturer position beginning fall 2021. An MS or the equivalent in Computer Science and college level teaching experience is required. The successful applicant must be prepared to teach a broad range of undergraduate courses, including beginning C++ programming courses and more advanced courses in object-oriented techniques and

software engineering. Applicants must be prepared to handle the usual faculty service load. Consideration will be given to: an applicant's history of course development for both live classrooms and distance learning environments, experience with teaching and managing large course sections and courses with formal laboratory components, or possession of a Ph.D. in Computer Science with the accompanying ability or experience to teach graduate courses in Computer Science. Experience in undergraduate student advising and recruiting is preferred.

The Department of Computer Science currently has 19 tenured and tenure-track faculty, 9 teaching faculty, and several adjunct faculty.

Located in Norfolk, Virginia, Old Dominion University ([www.odu.edu](http://www.odu.edu)) is a state-supported Carnegie Doctoral/Research Extensive institution with approximately 25,000 students and over 830 full-time faculty. Norfolk is a culturally-rich, historic city and a major international maritime center in Hampton Roads, a seven-city metropolitan area of over 1.5 million people.

ODU and the College of Sciences are committed to inclusive excellence, recognizing that diversity enhances and enriches our educational mission, employment experience, and community engagement. We seek candidates whose research, teaching, and/or service experiences have prepared them to fulfill our commitment to inclusion. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, gender identity or

expression, sexual orientation, national origin, genetics, disability, age, or veteran status.

Interested candidates should visit <https://jobs.odu.edu/> to submit a curriculum vitae, a statement of research activities and future research plans, a statement of teaching philosophy, unofficial graduate transcripts, and contact information for four references to Dr. Steve Zeil, Computer Science Faculty Search Committee Chair. The review of applications will begin January 15, 2021 and continue until position is filled.

Old Dominion University is an equal opportunity, affirmative action institution. Minorities, women, veterans and individuals with disabilities are strongly encouraged to apply.

## Portland State University

### *Assistant Professor*

The Department of Computer Science at Portland State University invites applications for an Assistant Professor position. Exceptional candidates will also be considered for appointment at the rank of Associate Professor. Candidates in all areas of Computer Science will be considered, with a preference for applicants who will enhance or complement our existing areas of research expertise (<https://www.pdx.edu/computer-science/research-areas>) and/or whose work is aligned with the strategic visions of the department (<https://www.pdx.edu/computer-science/strategic-vision>) or the Maseeh College (<https://www.pdx.edu/engineering/strategic-vision>).

The expected start date for these positions is September 2021, but earlier or later dates can be negotiated.

For more information and application details, please visit <https://bit.ly/pdx-cs-position>.

Portland State University is an Affirmative Action, Equal Opportunity institution and welcomes applications from all diverse candidates, including, among others, protected veterans and individuals with disabilities.

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## Princeton University

### *Assistant Professor of Computer Science*

The Department of Computer Science at Princeton University invites applications for tenure track faculty positions at the Assistant Professor level. We are accepting applications in all areas of Computer Science.

Applicants must demonstrate excellent research and scholarship potential as well as teaching ability. The department is committed to fostering a diverse and inclusive academic community with a culturally diverse faculty. We are particularly interested in receiving applications from members of groups that have been historically underrepresented in Computer Science. A PhD in Computer Science or

a related area is required. Candidates should expect to receive their PhD before September 1, 2021. Successful candidates are expected to pursue an active research program and to contribute significantly to the teaching programs of the department.

Applications should be submitted online at <https://www.princeton.edu/acad-positions/position/17741>. Applicants should include a CV, research statement, teaching statement and contact information for at least three people who can comment on the applicant's professional qualifications. For full consideration we recommend that applicants apply by December 1, 2020, although we will continue to review applications past that date as needed.

This position is subject to the University's background check policy.

Princeton University is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law. EEO IS THE LAW. <https://dof.princeton.edu/policies-procedure/policies/equal-opportunity>

Requisition No: D-21-COS-00001



## Open-Rank Teaching Faculty

The College of Information Sciences and Technology (IST) at The Pennsylvania State University invites applications for multiple, Open-Rank Teaching Faculty positions. Review of applications begins immediately, with positions starting as early as January 2021. These are non-tenure-track, multi-year appointments with an excellent possibility of renewal.

The college is currently in a growth period with record-high enrollments in both undergraduate and graduate programs, taught residually and online, including:

- Cybersecurity Analytics and Operations
- Data Sciences
- Enterprise Technology Integration
- Human-Centered Design & Development
- Information Sciences and Technology
- Security & Risk Analysis
- Informatics

Successful candidates should be prepared to teach relevant introductory and advanced courses in one or more of the following areas:

### Cybersecurity Analytics and Operations:

- Digital forensics to include desktop, mobile, device, or information forensics
- Information security
- Applied cryptography
- Systems security, software security, network security to include firewalls, intrusion detection, and cryptographic network protocols
- Malware analytics and software reverse engineering
- Penetration testing
- Network traffic analysis

### Enterprise Technology Integration:

- Development for enterprise web technologies
- Organizational and project management
- Database management and administration
- Systems and enterprise integration
- Advanced database design and management
- Cloud-based technology solutions and integration
- Discipline-specific application and integration in the use of technology (e.g. healthcare, finance, business, agriculture, etc.)

### Human-Centered Design & Development:

- Introductory, intermediate, and advanced programming in Java
- Programming for the web
- Programming for mobile applications
- Software design and development
- Interaction design and development
- High and low fidelity prototyping, and user interface development tools
- Studying users, interface design, and interaction

### Foundational first- and second-year courses addressing:

- Introduction to Information, People, and Technology
- Introduction to Application Development
- Organization of Data
- Networking and Telecommunications
- Language, Logic, and Discrete Mathematics

Applicants must have a master's or terminal degree in a related discipline by appointment date and a commitment to teaching learners at all levels and from all backgrounds. Successful candidates will be prepared to teach courses in one or more of the areas listed above. Candidates will be considered for a teaching faculty rank commensurate with their education and experience in accordance with <https://policy.psu.edu/policies/ac21#E>.

The College of Information Sciences and Technology is strongly committed to a diverse community and to providing a welcoming and inclusive environment for faculty, staff and students of all races, genders, and backgrounds. The college is committed to making good faith efforts to recruit, hire, retain, and promote qualified individuals from underrepresented minority groups including women, persons of color, diverse gender identities, individuals with disabilities, and veterans.

Applicants should include with their application a cover letter detailing relevant qualifications for this job including relevant educational background as well as any teaching or industry experience related to the areas of interest mentioned above, a resume or curriculum vitae, a one-page teaching statement, a statement regarding engagement in or commitment to inclusion, equity, and diversity issues as they relate to broadening participation in the disciplines represented in the college and align with the mission of the college, and contact information (name, affiliation, email address) for three (3) references.

Inquiries about the positions may be directed to [facultyrecruiting@ist.psu.edu](mailto:facultyrecruiting@ist.psu.edu). It is imperative that you describe the area(s), programs, or specific classes you closely align with, as described above.

The Pennsylvania State University is the land grant institution of Pennsylvania. University Park is the largest of Penn State's 24 campuses, with approximately 44,000 undergraduates and more than 150 graduate programs. The College of IST has award-winning faculty and state-of-the-art facilities. Both faculty and students are dedicated to collaboration and applying knowledge to make our lives better. See: <http://ist.psu.edu/>. University Park is located in State College, PA, ranked the 3rd safest metropolitan area in the US by CQ Press and the 8th best college town by Best College Reviews.

Apply online at <https://apptrkr.com/2017057>

**CAMPUS SECURITY CRIME STATISTICS:** For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.



## Open-Rank Tenured and Tenure-Track Faculty in Security and Privacy

The Pennsylvania State University College of Information Sciences and Technology invites applications from scholars in security and privacy for multiple, open-rank, tenured/tenure-track faculty positions beginning in Fall 2021. We seek outstanding candidates with a strong track record of research to strengthen and diversify our current research programs. As security and privacy are inherently interdisciplinary, we are interested in human, social, behavioral, political, and economic aspects, in addition to technical and engineering aspects, of security and privacy. Our focus this year includes, but not limited to: blockchain security, cryptocurrencies, applied crypto; cybercrime, cyber law, dark web; privacy by design, privacy preserving technologies, formal/statistical privacy, differential privacy; human factors of security and privacy; politics/economics of security and privacy, social/policy perspectives on security and privacy; CPS/IoT security, hardware security; security of autonomous systems; AI in security and security in AI.

Competitive applicants for the position at the rank of Assistant Professor will possess a PhD or another terminal degree in a field related to cybersecurity and privacy (e.g., informatics, information science, international affairs, psychology, economics, statistics, business, political science, computer science, electrical engineering) before beginning employment at Penn State, strong potential for developing an externally funded, collaborative, interdisciplinary research program, and potential to contribute to the college's teaching mission. Candidates seeking the rank of Associate Professor should have the same qualifications as the Assistant Professor, as well as, a strong track record of scholarly achievement, external funding, and demonstrated success in teaching and service. Candidates for Full Professor should have the same qualifications as the Associate Professor, as well as, a track record of research publications, funding, teaching and service that distinguishes them, nationally or internationally, as leaders in cybersecurity and privacy, broadly defined.

Candidates will join a dynamic faculty, contributing to the research, teaching and service missions of our College and University. Our College is growing, and currently offers six undergraduate, two masters and one doctoral degree. Beyond the college, faculty enjoy the vibrant research atmosphere of a large university. Penn State offers access to an outstanding collaborative environment, world-class research infrastructure, as well as highly competitive salaries and startup packages. With over \$1 billion in annual research expenditures, Penn State ranks among the top 20 U.S. research universities, and is one of only two institutions in the nation accorded land grant, sea grant, sun grant, and space grant status. This affords faculty the opportunity to work with a wide range of Penn State centers and programs, including the Center for Socially Responsible AI, the Social Science Research Institute, the Rock Ethics Institute, Institute for Information Policy, the Institute for Computational and Data Sciences, the Institutes of Energy and the Environment, and the Africana Research Center, just to name a few.

University Park is the largest of Penn State's 24 campuses, with approximately 46,000 undergraduates and more than 150 graduate programs. The surrounding community of State College is a quintessential university town well known for its safe metropolitan area, exceptional quality of life including a low cost of living, a growing economy, a diverse offering of cultural and recreational opportunities, and excellent resources for families, including two on-campus child care centers and well-regarded local school systems.

The College of Information Sciences and Technology is strongly committed to a diverse community and to providing a welcoming and inclusive environment for faculty, staff and students of all races, genders, and backgrounds. The college is committed to making good faith efforts to recruit, hire, retain, and promote qualified individuals from underrepresented minority groups including women, persons of color, diverse gender identities, individuals with disabilities, and veterans.

Applicants must include with their application the following materials: (1) a cover letter detailing qualifications for the position and listing up to three of the applicants' most important publications; (2) a curriculum vitae including publications list; (3) a research statement outlining future research plans, (4) a teaching statement, and (5) a statement regarding engagement in or commitment to inclusion, equity, and diversity issues as they relate to broadening participation in the disciplines represented in the college and align with the mission of the College. Applicants for the Assistant Professor position should arrange for at least three references to be sent via email to [humanresourcesist.psu.edu](mailto:humanresourcesist.psu.edu). Applicants for the Associate or Full Professor position should provide contact information (name, affiliation, email address) for at least four references. Applicants for the Associate or Full Professor position will be notified before letters are solicited from their references.

Inquiries about the position may be directed to [facultyrecruiting@ist.psu.edu](mailto:facultyrecruiting@ist.psu.edu).

Review of applications and nominations will begin as early as October 26, 2020 and will continue to be accepted until the positions are filled.

Apply online at <https://apptrkr.com/2015417>

**CAMPUS SECURITY CRIME STATISTICS:** For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

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## Tenure-Track Faculty in Social and Organizational Informatics

The Pennsylvania State University College of Information Sciences and Technology invites applications from sociotechnical scholars for one or more tenure-track, open rank professor positions in the Social and Organizational Informatics Faculty Area. We invite exceptional candidates with high quality, interdisciplinary research and publication records, who draw on methods from the humanities or social and behavioral sciences to study the complex interactions between the human, social, cultural, political, organizational, economic and technical factors fundamental to the use of information technologies.

While we seek applicants conducting a broad range of sociotechnical research, we particularly welcome scholars whose research connects with our current areas of emphasis—e.g., critical approaches to computing (especially the intersection of computing with marginalized identities, such as race, gender, ethnicity, and sexuality), technology ethics and policy, and crisis informatics—thereby complementing and extending existing strengths among our faculty. We welcome all methods, humanistic or empirical, including qualitative, quantitative, and mixed-methods, generating impact for theory and practice. This new hire would be instrumental in building a new major within the College and connected to Penn State's new Center for Socially Responsible Artificial Intelligence.

Competitive applicants for the position at the rank of Assistant Professor will possess a PhD in a field related to sociotechnical studies (including, but not limited to, STS, sociology, anthropology, political science, communication, business, geography, economics, philosophy, information science or related fields) before beginning employment at Penn State, strong potential for developing an externally funded, collaborative, interdisciplinary research program, and potential to contribute to the college's teaching mission.

Candidates seeking the rank of Associate Professor should have the same qualifications as the assistant professor, as well as, a strong track record of scholarly achievement, external funding, and demonstrated success in teaching and service.

Candidates for Full Professor should have the same qualifications as the assistant professor, as well as, a track record of research publications, funding, teaching and service that distinguishes them, nationally or internationally, as leaders in Social and Organizational Informatics, broadly defined.

Candidates will join a dynamic faculty, contributing to the research, teaching and service missions of our College and University. Our College is growing, and currently offers six undergraduate, two masters and one doctoral degrees. Beyond the college, faculty enjoy the vibrant research atmosphere of a large university. Penn State offers access to an outstanding collaborative environment, world-class research infrastructure, as well as highly competitive salaries and startup packages. With over \$900 million in annual research expenditures, Penn State ranks among the top 20 U.S. research universities, and is one of only two institutions in the nation accorded land grant, sea grant, sun grant, and space grant status. This affords faculty the opportunity to work with a wide range of Penn State centers and programs, including the Center for Socially Responsible AI, the Social Science Research Institute, the Rock Ethics Institute, Institute for Information Policy, the Institute for Computational and Data Sciences, the Institutes of Energy and the Environment, and the Africana Research Center, just to name a few.

University Park is the largest of Penn State's 24 campuses, with approximately 46,000 undergraduates and more than 150 graduate programs. The surrounding community of State College is a quintessential university town well known for its safe metropolitan area, exceptional quality of life including a low cost of living, a growing economy, a diverse offering of cultural and recreational opportunities, and excellent resources for families, including two on-campus child care centers and well-regarded local school systems.

The College of Information Sciences and Technology is strongly committed to a diverse community and to providing a welcoming and inclusive environment for faculty, staff and students of all races, genders, and backgrounds. The college is committed to making good faith efforts to recruit, hire, retain, and promote qualified individuals from underrepresented minority groups including women, persons of color, diverse gender identities, individuals with disabilities, and veterans.

Applicants must include with their application the following materials: (1) a cover letter detailing qualifications for the position; (2) a curriculum vitae including publications list; (3) a research statement outlining future research plans, a teaching statement, and a statement regarding engagement in or commitment to inclusion, equity, and diversity issues as they relate to broadening participation in the disciplines represented in the college and align with the mission of the College.

Applicants for the Assistant Professor position should arrange for at least three references to be sent via email to [humanresources@ist.psu.edu](mailto:humanresources@ist.psu.edu). Applicants for the Associate or Full Professor position should provide contact information (name, affiliation, email address) for at least four references. Applicants for the Associate or Full Professor position will be notified before letters are solicited from their references.

Inquiries about the position may be directed to [facultyrecruiting@ist.psu.edu](mailto:facultyrecruiting@ist.psu.edu).

Review of applications and nominations will begin as early as October 19, 2020 and will continue to be accepted until the positions are filled.

Apply online at <https://apptrkr.com/2015319>

**CAMPUS SECURITY CRIME STATISTICS:** For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

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## Ramapo College of New Jersey

*Assistant Professor of Computer Science*

**Mission:** Ramapo College of New Jersey is New Jersey's Public Liberal Arts College, dedicated to providing students a strong foundation for a lifetime of achievement. The College is committed to academic excellence through interdisciplinary and experiential learning, and international and intercultural understanding. Ramapo College emphasizes teaching and individual attention to all students. We promote diversity, inclusiveness, sustainability, student engagement, and community involvement.

Ramapo College of New Jersey (RCNJ) seeks applicants for a tenure track - position in Computer Science with a start date of September 2021. Successful - candidates will teach a variety of computer science courses at both - undergraduate and graduate levels. Candidates with expertise in any area of - Computer Science are encouraged to apply.

RCNJ is New Jersey's Public Liberal Arts College, dedicated to - providing students a strong foundation for a lifetime of achievement. The - College is committed to academic excellence through interdisciplinary and - experiential learning, and international and intercultural understanding. Ramapo - College emphasizes teaching and individual attention to all students. We promote - diversity, inclusiveness, sustainability, student engagement, and community - involvement.

EEO Statement

RCNJ is an Equal Opportunity Employer. Additional details are found here.

PhD in Computer Science, or a closely related field completed by September - 2021.

Apply Here: <https://www.Click2Apply.net/yrhcjvfgfhpbpwjh>

## Rice University

*Department of Computer Science*

*Faculty Positions - Open Rank*

The Department of Computer Science at Rice University invites applications for tenured and tenure-track faculty positions at all ranks. The Department seeks strong applicants in two areas.

- **Artificial Intelligence:** The search covers sub-areas of artificial intelligence such as machine learning, computer vision, natural language processing, and data mining. We are also looking for candidates who work at the intersection of artificial intelligence with other sub-areas of computer science, such as computer systems, architecture, programming languages, theory, and human factors.
- **Quantum Computing:** The search covers, but is not limited to, quantum algorithms and complexity, quantum cryptography, and models of testing quantum devices. These positions require conducting high-quality research in Artificial Intelligence and/or Quantum Computing, as well as teaching graduate and undergraduate courses in computer science. Successful candidate will have a strong commitment to teaching, advising, and mentoring undergraduate and graduate students from diverse backgrounds. Consistent with

the National Research Council's report, *Convergence: Facilitating Transdisciplinary Integration of Life Sciences, Physical Sciences, Engineering, and Beyond*, we are seeking candidates who have demonstrated ability to lead and work in research groups that "... [integrate] the knowledge, tools, and ways of thinking..." from engineering, mathematics, and computational, natural, social and behavioral sciences to solve societal problems using a convergent approach.

Please submit a CV, a research statement, a statement of teaching interests, and the names and addresses of at least three references through <https://jobs.rice.edu/postings/24635>. The application deadline for these positions is December 31, 2020. However, late applications may still be considered at the discretion of the faculty search committee. More information can be found on our web site, <http://www.cs.rice.edu>, or by contacting the Computer Science Department Executive Administrator, Ms. Karen Lavelle, at [klavelle@rice.edu](mailto:klavelle@rice.edu).

The positions will start in July 2021. Applicants must hold a Ph.D. degree or equivalent in computer science or a related discipline, or must complete the Ph.D. by November 1 of the year employment commences.

### About the Department and School of Engineering

The Department of Computer Science has consistently ranked among the top 20 graduate programs in the country (US News & World Report) and is strongly committed to excellence in teaching, research, and service.

The department hired several outstanding young faculty members in the last few years and is authorized to hire at least 10 tenured and tenure-track faculty members in the next three years.

The Department is part of the George R. Brown School of Engineering, which ranks among the top 20 undergraduate engineering programs (US News & World Report) and is strongly committed to nurturing the aspirations of faculty, staff, and students in an inclusive environment.

## About Rice University

Rice University is a private university with a strong reputation for academic and research excellence. Rice attracts outstanding undergraduate and graduate students from across the nation and around the world. Rice provides a stimulating environment for research, teaching, and joint projects with industry. The department and the university have access to superb computational research facilities, both on-campus and in our networked off-campus data center. The university is located across the street from the Texas Medical Center, one of the premiere centers for medical research in the United States. Houston's energy, medical,

aerospace, and technology communities together make the city a hub for computational innovations across real-time, embedded and high-performance systems, with an increasing demand for data analytics across this spectrum. Houston is in the midst of technological transformation with the development of a high-tech district, the ION (<https://ionhouston.com>), which will provide opportunities for collaborations with some

of the world's top energy companies that are already transformed by data science. As the fourth-largest city in the USA, Houston is a cosmopolitan destination with a vibrant economy and world-class performing arts, museums, sports, and dining venues that are all located in close proximity to Rice.

We seek greater representation of women, minorities, people with disabilities, and veterans in disciplines in which they have historically been underrepresented; to attract international students from a wider range of countries and backgrounds; to accelerate progress in building a faculty and staff who are diverse in background and thought; and we support an inclusive environment that fosters interaction and understanding within our diverse community.

Rice University is an Equal Opportunity Employer with commitment to diversity at all levels and considers for employment qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national or ethnic origin, genetic information, disability, or protected veteran status.

## Rutgers University

*Tenure-Track Faculty Position in Data Science*

*Department of Library and Information Science*

*School of Communication and Information*

We seek applications for one tenure-track position in the area of Data Science, from candidates who complement the strengths of

our existing faculty and will fully engage with research, teaching, and administration.

The ideal candidate's scholarship in Data Science would focus in areas such as:

- designing artificial intelligence (AI) approaches for social good, with a particular focus on applications relating to communication, information, and media.
- developing human-centered machine learning in the context of issues of ethics, such as fairness, accountability, transparency, explainability, inequity, and the social impact of algorithms.
- computational social science – including developing data science methods to understand human behavior, to inform scientific inquiry, to aid theory development, and to support causal inferences.
- natural language processing – including deep learning approaches for language analysis, computational persuasion, and conversational AI.
- network science – including data intensive approaches to understand social networks, social contagion, and network dynamics.

The successful applicant will teach courses in areas such as data analytics, machine learning, social network analysis and natural language processing in an iSchool context. We especially invite candidates who will take leadership roles in our highly ranked Master of Information (MI), our rapidly growing Information Technology and Informatics (ITI) undergraduate major, and our inter-disciplinary Ph.D. program. We are a charter member of the iSchool caucus.

We are currently in an exciting period of transformation and growth as we form a hub for data science across departments at Rutgers University.

Rutgers University's School of Communication and Information houses a dynamic and engaged community of scholars whose fields of library and information science, communication, and journalism and media studies intersect to address society's challenges. For more about the School, see [cominfo.rutgers.edu](http://cominfo.rutgers.edu). For queries regarding the position, please contact the Search Committee Chair Vivek Singh, Ph.D. ([vsingh@rutgers.edu](mailto:vsingh@rutgers.edu)).

Qualifications: Ph.D. or equivalent doctoral degree in a relevant field is expected as of June 2021. Applicants should have a demonstrated record or strong likelihood of top-tier peer-reviewed publications and evidence of or preparation for effective teaching.

Requirements: Responsibilities of tenure-track faculty members include undergraduate and graduate teaching assignments, an active program of research in the candidate's area of scholarly expertise, and service contributions in accordance with the university policy for tenure-track and tenured appointments.

For detailed information and to submit an application: Applications should address the points above and clearly articulate the candidate's fit to specific departmental and school-wide research foci. Please include a letter of application, CV, three representative publications, a research statement, a teaching statement, and names and contact information for three referees (no letters at

this time). Priority review of applications will begin on November 1, 2020. Apply at <https://jobs.rutgers.edu/postings/I20336>.

Rutgers University is an AA/EEO employer - M/F/Veteran/Disability. For additional information please see our Non-Discrimination Statement at <http://uhr.rutgers.edu/non-discrimination-statement>.

## Rutgers University

### *Tenure-Track Assistant Professor*

The Computer Science Department at Rutgers University invites applications for a Tenure-Track Assistant Professor position in Theoretical Computer Science. We welcome candidates working on computational complexity theory but outstanding applicants in all areas of TCS will be considered. Consistent with the aims of the Simons Junior Faculty Fellows program, which provides partial funding, the department also welcomes applicants who are most affected by the COVID-19 pandemic: postdocs and new PhDs.

The appointment will start September 1, 2021. Responsibilities include research in the area of Theoretical Computer Science, supervision of PhD students, and teaching undergraduate and graduate level courses in Computer Science. Pursuit of external research funding is expected.

Qualifications: Successful completion of a PhD or equivalent in Computer Science or a closely related field is required by the start date.

To apply please submit your CV, a research statement addressing both past

and future work, a teaching statement, and contact information for three references at <http://jobs.rutgers.edu/postings/I20527>. For questions, contact: [martin@farach-colton.com](mailto:martin@farach-colton.com)

The CS Department is strongly committed to increasing the diversity of our faculty and welcomes applications from women, dual-career couples, historically underrepresented populations and candidates with disabilities. Offer is contingent upon successful completion of all pre-employment screenings. Rutgers is an affirmative action/equal opportunity employer.

## San Francisco State University

### *Department of Computer Science*

### *Assistant Professor - DB/HCI/Distributed Computing*

San Francisco State University, Department of Computer Science seeks applicants for one tenure-track Assistant Professor position in Databases, HCI, or Distributed Computing, beginning August 2021 (Candidates in other areas are also encouraged to apply). The mission of San Francisco State University is to create an environment for learning that promotes appreciation of scholarship, freedom, human diversity, and the cultural mosaic of the City of San Francisco and the Bay Area; to promote excellence in instruction and intellectual accomplishment; and to provide broadly accessible higher education for residents of the region, state, the nation, and the world. Ph.D. or equivalent degree in Computer Science required. Salary

commensurate with qualifications. Position description available at <http://cs.sfsu.edu>. Application review begins 12/1/2020, continues until filled. Send letter of intent, a current CV, a statement on how your teaching and scholarship align with the commitment of the CS Department to foster an inclusive and diverse academic community; representative publications; teaching statement; research statement; contact information of three references at <https://academicjobsonline.org/> (Job: 17140). Letters of recommendation upon request at a later date.

## Santa Clara University

### *Tenure-Track Assistant Professor of Computer Science and Engineering*

#### **Purpose:**

The Department of Computer Science & Engineering at Santa Clara University invites applications for two tenure-track Assistant Professor positions starting in the 2021-2022 academic year. To complement the expertise of current faculty, address areas of strong interest to students, and enhance collaboration opportunities with local industries, the department is particularly interested in candidates with specializations in software engineering, programming languages, HCI, visualization (AR/VR), and database systems. However, Silicon Valley is an area of broad and ever-changing technical interests and needs, and strong candidates will be seriously considered regardless of area of specialization.

Santa Clara University (<https://www.scu.edu>) is a comprehensive Jesuit, Catholic university,

located in the heart of Silicon Valley, offering rigorous undergraduate curricula in arts and sciences, business, and engineering, plus graduate degrees (master's, Ph.D., and law degrees) in six disciplines. Santa Clara University is California's oldest operating institution of higher education. Distinguished by the highest retention rate and has been ranked first among all regional universities in the West by U.S. News and World Report. Santa Clara University is now elevated to a new category in national rankings, "Doctoral/Professional Universities." Santa Clara University's ranking in the 2020 edition of Best Colleges is National Universities, #54.

The University is focused on creating an academic community that educates citizens and leaders who will build a more just, humane, and sustainable world. The School of Engineering is committed to improving the human condition through engineering education, practice, and scholarship, promoting the University's mission to "fashion a more humane, just and sustainable world."

SCU maintains small class sizes and promotes close faculty/student interaction. The University enrollment is approximately 5,500 undergraduate and 3,700 graduate students. The Department (<http://www.scu.edu/engineering/cse/>) offers B.S., M.S. and Ph.D. degrees, with 22 full-time faculty, and a strong pool of approximately 25 part-time adjunct faculty who instruct about 400 undergraduate majors, and about 450 part-time and full-time graduate (M.S. and Ph.D.) majors. The School of Engineering maintains strong ties to local industry.

SCU and the computer science and engineering profession are committed to justice, equity, diversity, and inclusion; we seek candidates whose research, teaching, and/or service have prepared them to help fulfill our commitment to these. All SCU faculty engage in teaching, research and service. The ideal candidate will express enthusiasm for teaching classes from undergraduate through graduate courses in areas of specialization, and lower-division courses of a fundamental nature, fulfilling all responsibilities related to those courses, and for engaging students from diverse backgrounds in learning. The successful candidate will be expected to develop her/his own scholarly research, including mentoring undergraduate and graduate students. Developing an active research program appropriate to Santa Clara's mission that leads to high-quality publications, grant applications, and engages students as participants is an expectation of the position.

We welcome candidates who are ready to contribute to our mission to educate citizens and leaders of competence, conscience, and compassion and to cultivate knowledge and faith to build a more humane, just, and sustainable world. We especially encourage applicants whose goals and professional or life experiences enrich the department and school community and who can serve as a role model to a diverse student population.

#### **Salary:**

Based on experience, education, and expertise.

## Basic Qualifications:

Applicants must hold a doctorate in computer science, computer engineering, or in a closely related field; have demonstrated a strong potential for high-quality research in computing; and have a strong commitment and ability to teach at both the undergraduate and graduate levels. The full-time teaching load is nominally seven quarter-level courses per academic year (each quarter is 10 weeks excluding the final exams week), but a one-course release is given to faculty actively involved in research and course credit is also given for project, thesis, and laboratory supervision. The first-year tenure-track assistant professor is granted an additional one-course release. Limited course buyout may be approved using external grant funds.

## Responsibilities:

Teaching undergraduate and graduate courses in areas of specialization, and courses of a fundamental/core nature, and fulfilling all responsibilities related to those courses.

The standard academic year course load for tenured and tenure-track positions is seven quarter-level course equivalents, generally with a one-course equivalent reduction for scholarly or creative work. The first-year tenure-track assistant professor is granted an additional one-course release.

Course equivalents include lectures and supervision of labs, theses, dissertations, and projects, distributed across three-quarters of 10 weeks each.

Developing a research program that leads to high-quality publications, competitive for funding by external sources, and engages students as participants in that research.

Appropriate service to the department, school, university, and profession.

## Start Date: 09/01/2021

## Work Authorization:

A foreign national who is appointed to a tenured or tenure-track faculty position is eligible for sponsorship by Santa Clara University.

## Special Instructions to Applicants:

Applicants should upload a letter of application, a detailed CV, and the names and contact information of three professional references.

All letters of application MUST include statements of research interests, statements of teaching interests, and statements of equity, diversity, and inclusion. An equity, diversity, and inclusion (EDI) statement describes past, present, and planned contributions to equity, diversity, and/or inclusion in engineering or other areas.

All materials should be submitted online at [https://wd1.myworkdaysite.com/en-US/recruiting/scu/scu/job/Santa-Clara-CA/Tenure-Track-Assistant-Professor-of-Computer-Science-and-Engineering\\_R879](https://wd1.myworkdaysite.com/en-US/recruiting/scu/scu/job/Santa-Clara-CA/Tenure-Track-Assistant-Professor-of-Computer-Science-and-Engineering_R879).

Complete application packets received by November 15, 2020, will receive full consideration. However, the position will remain open until filled.

## EEO Statement:

Santa Clara University is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity and inclusion, and, in this spirit, particularly welcomes applications from women, persons of color, and members of historically underrepresented groups. All qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity or expression, age, status as a protected veteran, status as a qualified individual with a disability, or other protected category in accordance with applicable law. The University will provide reasonable accommodations to individuals with a disability.

Santa Clara University annually collects information about campus crimes and other reportable incidents in accordance with the federal Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. To view the Santa Clara University report, please go to the Campus Safety Services website at <https://university-operations.scu.edu/campus-safety/>. To request a paper copy please call Campus Safety at (408) 554-4441. The report includes the type of crime, venue, and number of occurrences.

## Required Documents:

1. Letter of Interest, with statements of research interests, statements of teaching interests, and statements of equity, diversity and inclusion
2. Curriculum Vitae
3. First Professional Reference Contact Information

4. Second Professional Reference  
Contact Information

5. Third Professional Reference  
Contact Information

**References:**

Accept References? Yes

Minimum Number of References? 3

Maximum Number of References? 3

## Smith College

### *Assistant Professor of Computer Science*

The Department of Computer Science at Smith College invites applications for two tenure-track positions at the rank of Assistant Professor, to begin July 1, 2021. Both positions are open to all specialties, with particular interest in systems and hardware for the one. A Ph.D. in Computer Science or a closely related field is expected by the time of appointment. Candidates from groups underrepresented in Computer Science are encouraged to apply. Details about the Department of Computer Science may be found at <https://www.smith.edu/academics/computer-science>.

For more information and to apply, visit <http://apply.interfolio.com/79751>.

Review of applications will begin on December 1, 2020. EO/AA/Vet/Disability Employer.

## Southern Illinois University Carbondale

### *Assistant Professor*

Southern Illinois University Carbondale invites those with potential for excellence in research and teaching to submit an application for consideration as an Assistant Professor in the School of Computing. This is a 9-month, continuing, tenure-track appointment starting August 16, 2021. We are particularly looking for those who specialize in Data Mining, Text Mining, Big Data Analytics, Big Data Applications, or related fields.

Please use the following link to apply <https://jobs.siu.edu/job-details?jobid=11206>

## St. Cloud State University

### *Professor of Software Engineering*

St. Cloud State University seeks a tenure-track Assistant/Associate/Full Professor of Software Engineering, to start in Fall 2021. Application Review begins in November 2020; position open until filled. Application should include Cover Letter, Teaching statement, Research statement, Resume/CV, Contact information for three references, and Copies of Transcript(s).

Full ad: <https://stcloudstate.peopleadmin.com/postings/2446>

For any questions, please contact: [csit@stcloudstate.edu](mailto:csit@stcloudstate.edu)

## Stanford University

### *Department of Management Science and Engineering*

Faculty Opening at the Assistant or untenured Associate Professor level

Inviting applications from individuals working at the frontiers of Management Science and Engineering, including engineering, mathematical, data and computational sciences, as well as from the medical, physical, behavioral and social sciences.

Apply online at: <https://msande.stanford.edu/about/jobs/faculty-openings-mse> where full text of search ad is available.

Review of applications will begin on September 15, 2020 until December 15, 2020.

## Stanford University

### *Assistant Faculty (Research)*

The Institute for Human-Centered Artificial Intelligence (HAI) at Stanford University invites applications for a fixed-term Assistant Professor (Research) faculty position. The appointment is for a non-renewable term of five years, beginning in September 2021. The selected candidate will be appointed in an appropriate disciplinary department (e.g., Communications, Computer Science, History, Philosophy, Psychology, Sociology), and will be a *Junior Fellow* of the Stanford Institute for Human-Centered Artificial Intelligence.

We are seeking applicants from all areas of research related to artificial intelligence, spanning theoretical foundations, systems,

software, applications, and human or societal impact. We are particularly interested in researchers working at the frontiers of artificial intelligence and other disciplines, including but not limited to the humanities, business, education, law, medicine, and physical and social sciences.

Applicants must have received a PhD prior to the start of the appointment, must show outstanding promise in research, and must have a strong commitment to teaching. A successful candidate will be expected to teach one course per year at the graduate and/or undergraduate levels and will be provided generous research support.

Further information about the HAI Institute can be found at <https://hai.stanford.edu>.  
Application Requirements:

- All applications should include a curriculum vita, a list of publications, and brief (3 page total) statements of research and teaching interests.
- Applicants should submit the names and contact information of at least four references.

Please apply at [Academic Jobs Online](#) (AJO). You will need to create an AJO account if you do not already have one. Questions should be directed via email to [HAI-Search@stanford.edu](mailto:HAI-Search@stanford.edu).

*Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran*

*status, or any other characteristic protected by law. Stanford welcomes applications from all who would bring additional dimensions to the University's research, teaching and clinical missions.*

## Stanford University

### *Faculty Positions in Operations, Information, & Technology - Impact of Race in America*

Stanford seeks to hire as many as 10 strong researchers and scholars--campus-wide--who study the impact of race in American society, including the nature and persistence of racial inequality and its consequences. We seek to support, deepen, and enhance the important research and teaching in these areas long underway on our campus.

The Graduate School of Business invites applications for faculty positions in our seven academic areas: Accounting; Economics; Finance; Marketing; Operations, Information & Technology; Organizational Behavior; and Political Economy under the Impact of Race in America topic. We welcome applications from scholars with all disciplinary backgrounds that bear on race in America and racial justice to apply to the seven areas. Rank is open, although there is the expectation that a majority of the appointments will be made at the assistant professor level. Although all areas of research will be considered, we are particularly interested in candidates with outstanding records of achievement in developing or using innovative approaches in the broad areas of their discipline. The successful candidates should possess a strong research background within their

discipline and the ability to teach effectively in both the MBA and PhD programs in the school. The successful candidates should have or must expect to have their PhD degree by the start date of their faculty appointment at Stanford University.

Review of applications will begin on November 15, 2020 and will continue until all of the positions are filled. Candidates are invited to apply online via <https://www.gsb.stanford.edu/jobs/faculty-recruiting>, with the following materials: a statement describing the candidate's academic background and teaching experience, a curriculum vitae, a research statement of no more than three pages, and the names of three recommenders. Please direct questions to [faculty\\_recruiter@gsb.stanford.edu](mailto:faculty_recruiter@gsb.stanford.edu).

Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other characteristic protected by law. Stanford welcomes applications from all who would bring additional dimensions to the University's research, teaching and clinical missions.

## Stevens Institute of Technology

### *Teaching Faculty Positions in Computer Science*

The Department of Computer Science at the Schaefer School of Engineering and Science (SES), Stevens Institute of Technology

(Stevens) invites applications for two non-tenure-track, teaching faculty positions in all areas of Computer Science to begin in January of 2021.

Applicants should have earned a Ph.D. in Computer Science or a related discipline. The rank of the appointment will depend on experience and qualifications. Successful candidates are expected to have a strong commitment to excellence in teaching at both the graduate and undergraduate level. They are also expected to advise students, supervise them in research, and contribute to the highly interdisciplinary, collaborative, diverse, innovative, and entrepreneurial culture at Stevens.

The Department of Computer Science is home to 26 full-time faculty members, including nine hired in the last three years, over 1,000 undergraduate and graduate students and is the prime occupant of the Institute's new \$45 million state-of-the-art academic building. Faculty research is supported by the NSF, NIH, NSA, ONR, DARPA, and other federal and private funding sources and is carried out by a vibrant group of Ph.D. students, which has grown by 50% in the last few years.

Stevens Institute of Technology is a private university located in Hoboken, New Jersey. The 55-acre campus is on the Hudson River across from midtown Manhattan within a few minutes from NYC via public transportation. Stevens' superb location offers excellent opportunities for collaboration with nearby universities and major corporate research laboratories. The Department of Computer Science is committed to increasing the diversity of the

campus community. Stevens is an Equal Opportunity Employer that is building a diverse faculty, staff and student body and strongly encourages applications from female and minority candidates as well as veterans and individuals with disabilities. Stevens is an NSF ADVANCE institution committed to equitable practices and policies.

Applications will be accepted until the positions are filled. Applications received by October 15, 2020 will receive full consideration.

All applications must be submitted electronically at <https://academicjobsonline.org/ajo/stevens>. Applicants should submit their curriculum vitae, a research plan, teaching interests and philosophy, and at least three reference letters. For any inquiries, please contact the Search Committee Chair, Professor Philippos Mordohai ([Philippos.Mordohai@stevens.edu](mailto:Philippos.Mordohai@stevens.edu)).

## SUNY Korea

### *Assistant/Associate/Full Professor and Teaching Professor Positions*

The Computer Science Department of SUNY Korea (<https://sunyk.cs.stonybrook.edu/>) invites applications for tenure-track and teaching-track positions, to start in Fall 2021 or sooner.

**(A) Tenure-Track Faculty Position:** An excellent faculty member is sought at all levels in all core areas of computer science. The position will be tenured or tenure-track at SUNY Korea, and will carry an affiliated faculty position with the

Computer Science Department at Stony Brook University – State University of New York (SUNY), Stony Brook, NY (<https://www.cs.stonybrook.edu/>). Applicants should hold a PhD in Computer Science or closely related area and exhibit a strong commitment to research and teaching.

**(B) Teaching-Track Faculty Position:** An excellent full-time teaching faculty is sought at the junior or senior level. The candidate is expected to teach introductory and advanced CS undergraduate and possibly graduate courses. It is possible for an excellent candidate to be converted into tenure-track at SUNY Korea at a later time. Engaging in research is encouraged but not mandatory. Applicants should hold a PhD or MS in Computer Science or a closely related area and exhibit a strong commitment to teaching.

The SUNY Korea CS department offers BS, MS, and PhD degrees and is tightly integrated with the highly ranked CS department at Stony Brook University. The academic degrees awarded at SUNY Korea are identical to those of Stony Brook University, and the language at SUNY Korea is English.

SUNY Korea (<http://www.sunykorea.ac.kr/>) is located in the new master-planned city of Songdo, Korea, hosting both global organizations and multinational corporations. Incheon international airport is just 25 minutes away and Seoul with its fascinating blend of Asian cultures is less than 1 hour away.

More information about the positions and application instructions can be found at <https://sunyk.cs.stonybrook.edu/about-us/career/>. Review of applications will

start immediately and will continue until the positions are filled. Applications from non-Korean citizens, women, and minorities are encouraged.

## Texas State University San Marcos, Texas

### *Department of Computer Science*

The Department of Computer Science invites applications for tenure-track Assistant/Associate Professor positions to start on September 1, 2021 subject to availability of funds. Consult the department's employment page at [www.cs.txstate.edu/employment/faculty/](http://www.cs.txstate.edu/employment/faculty/) for additional information and to apply.

Texas State University is an Equal Employment Opportunity/Affirmative Action Employer, committed to inclusive thought and action in support of our diverse community. Individuals from historically underrepresented groups and all those who share our commitment to inclusivity and passion for the strength of our diversity are strongly encouraged to apply.

Employment with Texas State University is contingent upon the outcome of record checks and verifications including criminal history, driving records, education records, employment verifications, reference checks, and employment eligibility verifications.

Texas State University is a tobacco-free campus. Smoking and the use of any tobacco product will not be allowed anywhere on Texas State property or in university owned or leased vehicles.

Texas State University is a member of the Texas State University System. Texas State University is an EOE.

## Texas Tech University

### *Assistant/Associate/Full Professor*

The Department of Computer Science at Texas Tech University invites applications for multiple tenured or tenure-track positions at various ranks starting in Fall 2021. Applicants must have a Ph.D. degree in Computer Science or related fields by the time of appointment. We are looking for outstanding individuals in all cores and emerging areas of computer science including software engineering, and quantum computing, with track records of research excellence, and potential to obtain external research funding and become leaders in research and education. Associate/Full Professor candidates must have proven record in building research teams at the university or national level, playing leading role in obtaining external research funding, and having internationally impactful publications. Service duties include program building, as well as commitment to extra-curricular activities. Service to the department, college, and university is expected. A demonstrated and ongoing commitment to serving diverse student populations and first-generation students is highly desirable.

A letter of application, Curriculum Vitae, statement of research, teaching statement, and three letters of reference (five for applications at the rank of full professor) should be submitted electronically at <http://www.texastech.edu/careers/> using

requisition numbers 21730BR, for assistant professorship, 21729BR for associate professorship or 21728BR for full professorship. Review of applications will begin as early as possible but no later than November 30, 2020 for assistant professors and January 15, 2021 for other ranks. The review will continue until the positions are filled.

As an Equal Employment Opportunity/Affirmative Action employer, Texas Tech University is dedicated to the goal of building a culturally diverse faculty committed to teaching and working in a multicultural environment. We actively encourage applications from all those who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community at Texas Tech University. The university welcomes applications from minorities, women, veterans, persons with disabilities, and dual-career couples. Texas Tech University recently surpassed the Hispanic student population threshold necessary for designation as a Hispanic Serving Institution (HSI).

Should you have questions, please contact: Dr. Yu Zhuang, at [cs.search@ttu.edu](mailto:cs.search@ttu.edu)

## Toyota Technological Institute at Chicago

### *Tenure-Track and Research Faculty Positions*

The Toyota Technological Institute at Chicago (TTIC) invites applications for the following faculty positions in computer science:

- tenure-track assistant professor
- full or associate (tenured) professor
- research assistant professor (three-year term)
- visiting professor

While we welcome applications from many areas of computer science, we will give preference to candidates working in the following areas:

- machine learning
- computer vision
- natural language processing and speech
- robotics
- computational biology
- algorithms and complexity theory

## About TTIC

TTIC ([www.ttic.edu](http://www.ttic.edu)) is a philanthropically endowed academic institute dedicated to fundamental research and graduate education in computer science. All TTIC faculty positions are supported by the endowment.

TTIC produces cutting-edge research and offers world-class graduate education. Our faculty routinely publish their results at top conferences and are recognized with distinctions such as the Sloan Research Fellowships, NSF CAREER Awards, Best Paper Awards, and the NAS Michael and Sheila Held Prize. TTIC research faculty alumni have an excellent employment track record (<https://www.ttic.edu/faculty-alumni/>).

Further, TTIC faculty members enjoy a uniquely light teaching load, which helps them focus on their research. TTIC has only

PhD students, so all courses and activities are focused on advanced learning and research.

Located on the University of Chicago campus, TTIC has strong ties to the University. In addition to having access to TTIC's excellent computing infrastructure, faculty members benefit from many of the University of Chicago's state-of-the-art facilities, as well as opportunities to collaborate with UChicago faculty and students.

TTIC faculty members frequently collaborate with colleagues from leading academic institutions around the world (travel and visitor hosting are strongly supported by TTIC).

TTIC faculty and students enjoy the close proximity of a vibrant urban environment with flourishing culture, business, and entertainment scenes.

We invite candidates with an outstanding academic record and passion for computer science research to join our world-class team of 12 tenured/tenure-track and 13 research faculty members ([www.ttic.edu/faculty/](http://www.ttic.edu/faculty/)).

## Teaching Requirements

Tenured/tenure-track faculty teach one quarter per year. Research faculty have no teaching duties, but have the opportunity to teach and co-advise students.

## TTIC/Simons-Berkeley Joint Program

Applicants for research assistant professor (RAP) positions in relevant areas are encouraged to simultaneously apply for the TTIC RAP program and the Simons-Berkeley Research Fellowship.

Applicants selected by TTIC will be offered an RAP position. Applicants selected by both institutions will be able to participate in a program at the Simons Institute before joining TTIC. Please note that applicants interested in the joint program must submit separate applications to TTIC and the Simons Institute.

## Benefits

Benefits at TTIC include excellent medical PPO or HMO insurance through Blue Cross Blue Shield of Illinois, and dental and vision insurance through Principal (80% employer paid). TTIC also provides employer-paid short-term and long-term disability and life insurance, as well as Flexible Spending Accounts for healthcare, transit and parking. Retirement benefits include a 401(k) with a gift of 3% of the employee's annual salary and a contributory match of up to 5% of annual salary. Dependent benefits include generous college tuition benefits at any accredited college or university.

## Timeline

We will start reviewing applications on December 1, 2020, and will continue until the positions are filled.

## Application Requirements

1. cover letter
2. curriculum vitae
3. research statement
4. teaching statement (optional for RAP applicants)
5. names and contact information of at least three references

If interested in the joint program, please check the Simons Fellowship requirements (<https://simons.berkeley.edu/programs/fellows>). Please note that the Simons Institute has a different deadline.

## Where to Apply

Please apply here:  
<https://ttic.edu/facultyapplication>

Senior applicants may directly contact the Chief Academic Officer ([avrim@ttic.edu](mailto:avrim@ttic.edu)) or faculty members in their areas.

## Questions

[recruiting@ttic.edu](mailto:recruiting@ttic.edu)

In keeping with its long-standing traditions and policies, Toyota Technological Institute at Chicago (TTIC) considers students, employees, applicants for admission or employment, and those seeking access to TTIC programs on the basis of individual merit.

In accordance with federal, state, and local law, TTIC does not discriminate on the basis of sex, race, color, religion, national origin, citizenship, ancestry, age, marital status, physical or mental disability, medical condition, genetic information, pregnancy or perceived pregnancy, gender, gender identity, gender expression, sexual orientation, protected military or veteran status, or any other protected status under the law, including Title IX of the Education Amendments of 1972. TTIC prohibits discrimination based on legally protected status with respect to all employment-related decisions, educational and admissions policies, personnel actions, and academic actions.

TTIC is committed to providing a respectful and positive environment for all members of its community, free from all forms of discrimination and harassment.

## Trinity College

### *Assistant Professor of Computer Science*

Applications are invited for a tenure-track position in computer science at the rank of Assistant Professor to start in the fall of 2021. Candidates must hold a Ph.D. in computer science at the time of appointment. We are seeking candidates with teaching and research interests in applied areas associated with data analytics, such as database and information systems, data mining and knowledge discovery, machine learning, and artificial intelligence, but other related areas will also be seriously considered.

Trinity College is a coeducational, independent, nonsectarian liberal arts college located in, and deeply engaged with, Connecticut's capital city of Hartford. Our approximately 2,200 students come from all socioeconomic, racial, religious, and ethnic backgrounds across the United States, and seventeen percent are international. We emphasize excellence in both teaching and research, and our intimate campus provides an ideal setting for interdisciplinary collaboration. Teaching load is four courses per year for the first two years and five courses per year thereafter, with a one-semester leave every four years. We offer a competitive salary and benefits package, plus a start-up expense fund. For information about the Computer Science Department, visit: <http://www.cs.trincoll.edu/>

Applicants should submit a curriculum vitae and teaching and research statements and arrange for three letters of reference to be sent to: <https://trincoll.peopleadmin.com/>

Consideration of applications will begin on December 15, 2020, and continue until the position is filled.

Trinity is an AA/EOE and warmly encourages women, members of minority groups, LGBTQ individuals and people with disabilities to apply. We are committed to enhancing our campus culture and curriculum through the diversity of its faculty, staff, and students.

## Tufts University

### *Multiple Open Faculty Positions*

The Department of Computer Science at Tufts University invites applications for multiple open faculty positions. For more information about the department or these positions, please visit <http://go.tufts.edu/CSpositions>.

*Tenure-track faculty position in Quantum Computing starting Fall 2021.* We seek candidates at the rank of Assistant or Associate Professor with research in Quantum Computation and Information. We are interested in candidates with a strong background in theoretical computer science whose research connects with our current faculty in quantum information and beyond. Please submit your application through Interfolio at <https://apply.interfolio.com/78094>. Review of applications will begin December 15, 2020 and will continue until the position is filled. Inquiries should be emailed to [ttsearch@cs.tufts.edu](mailto:ttsearch@cs.tufts.edu).

**Tenure-track faculty position in Engineering Education starting Fall 2021.** Tufts School of Engineering invites applications for an Assistant Professor in Engineering Education Research, for a primary appointment in any of its six departments (including Computer Science). The position will affiliate with the *Institute for Research on Learning and Instruction (IRLI)*. Please submit your application through Interfolio at <https://apply.interfolio.com/66334>. Review of applications will begin December 1, 2020 and will continue until the position is filled. Inquiries should be emailed to search chair [chris.swan@tufts.edu](mailto:chris.swan@tufts.edu).

**Teaching-track faculty position starting Spring or Fall 2021.** We seek candidates at the rank of Assistant Teaching Professor, with expertise in any area of Computer Science or a closely related field and with strong foundational knowledge in one or more areas of our core curriculum. This is a full-time, non-tenure-track position. The initial appointment is for two years, with possible renewal contingent on annual performance review results. A doctoral degree is preferred but not required. Please submit your application through Interfolio at <https://apply.interfolio.com/78107>. Applications are due December 15, 2020, but review of applications will begin October 15, 2020 and continue until the position is filled. Inquiries should be emailed to [cssearch@cs.tufts.edu](mailto:cssearch@cs.tufts.edu).

Throughout their application, candidates are encouraged to demonstrate their attention to diversity and inclusion as these topics relate to teaching, research, and engagement within the academic environment. The Tufts CS department

has grown significantly in the past decade in faculty, student size, and research funding. Tufts offers the best of a liberal arts college atmosphere coupled with the intellectual and technological resources of an RI research university. We support and encourage a culture of interdisciplinary research, and there are numerous such opportunities within the university. Located only six miles from historic downtown Boston, faculty members on the Tufts Medford/Somerville campus have extensive opportunities for academic and industrial collaboration outside of Tufts as well as participation in the rich intellectual life of the area.

Tufts University is an Equal Opportunity/Affirmative Action Employer. We are committed to increasing the diversity of our faculty and staff and fostering their success when hired. Members of underrepresented groups are welcome and strongly encouraged to apply. See the University's Non-Discrimination statement and policy at <https://oeo.tufts.edu/policies-procedures/non-discrimination/>. If you are an applicant with a disability who is unable to use our online tools to search and apply for jobs, please contact us by calling Johny Laine in the Office of Equal Opportunity (OEO) at 617-627-3298 or at [Johny.Laine@tufts.edu](mailto:Johny.Laine@tufts.edu). Applicants can learn more about requesting reasonable accommodations at <http://oeo.tufts.edu>.

## UC Riverside

### Postdoc

We are looking for a postdoc in the general area of network/system/ML security. We are interested in researchers who have either hands-on experiences in attacks or defenses (broadly-defined) or other backgrounds such as applying machine learning, AI, and program analysis to solve security problems. The offer is expected to last two years long.

Interested candidates should e-mail their CV to [zhiyunq@cs.ucr.edu](mailto:zhiyunq@cs.ucr.edu), [krish@cs.ucr.edu](mailto:krish@cs.ucr.edu), [amitrc@ece.ucr.edu](mailto:amitrc@ece.ucr.edu). We are especially interested in candidates that can start as early as possible.

## Universiteit Utrecht

**Assistant Professors in Information and Computing Sciences**  
(Tenure Track, 0.8 - 1.0 FTE)

### Job description

Due to our successful educational programmes and our ambitions in research, the Department of Information and Computing Sciences is expanding. Therefore we are actively searching for four or more motivated and committed Assistant Professors in Information and Computing Sciences. Please note that the levels of the positions offered will vary, depending on experience and expertise.

You have a background in Computing and Information Sciences, preferably in the areas of Software engineering, Artificial Intelligence, Data Science or Persuasive Technologies & Serious Gaming.

You possess a proven commitment and talent for research. As teaching is also an essential part of the work, we are searching for people with a demonstrable motivation to teach and a flexible attitude. The department provides a dynamic work environment. Our approach is characterized by a connected, open and can-do spirit that stimulates personal initiative and curiosity. You are a team player who is encouraged to take ownership and create value while sharing your knowledge both internally and across the wider (global) community. Every day we aim to live up to this mission, because we believe it is the only way to make the breakthroughs that will help solve the challenges facing the world.

If you are excited to actively participate and collaborate in shaping the department, you are invited to apply.

## Qualifications

We are looking for new colleagues to complement our team academically as well as on a personal level and who largely meets the following qualifications:

- a PhD in Computer Science, Information Science or another relevant discipline;
- publications with impact, in international conferences and journals;
- experience with or good prospects for acquiring external research funds;
- a vision on future research directions in your own area of expertise;
- experience with or readiness to supervise PhD projects;
- experience with and enthusiasm for teaching and student supervision;

- the ability to teach in departmental BSc and MSc programmes;
- experience with or the willingness to use innovative teaching methods and (e-learning) technologies;
- vision on teaching and your own contribution to teaching;
- the ability to speak and write English fluently.

## Offer

- an appointment at the level of Assistant Professor, initially for a period of 5 years. The position will be subject to a mid-term evaluation after approximately 2.5 years and an end-term evaluation. Following a positive evaluation the position will become permanent after 5 years;
- a gross salary – depending on previous qualifications and experience - ranges between €3,353 and €5,826 (scale 10-12 according to the Collective Labour Agreement Dutch Universities (cao)) per month for a full-time employment. Salaries are supplemented with a holiday bonus of 8% and a year-end bonus of 8.3% per year;
- a pension scheme, collective insurance schemes, partially paid parental leave, and flexible employment conditions based on the Collective Labour Agreement Dutch Universities;
- special perks include the assistance of a new PhD candidate funded by the Department in order to start up your research, the possibility to develop towards acquiring a Basic Teaching Qualification, supported with educational development programmes, offered by the University, and the possibility to travel to conferences.

In addition to the employment conditions laid down in the cao for Dutch Universities, Utrecht University has a number of its own arrangements. For example, there are agreements on professional development, leave arrangements and sports. We also give you the opportunity to expand your terms of employment yourself via the Employment Conditions Selection Model. This is how we like to encourage you to continue to grow. For international employees the university offers assistance with finding housing, child care and schools, as well as a partner programme and a Dutch language course.

More information about working at the Faculty of Science can be found here.

Utrecht is an attractive city located in the Netherlands, one of the world's most open and connected countries. Utrecht University reflects this philosophy by offering a flexible work/life balance that prioritizes your well-being within an understanding and supportive, family friendly environment.

## About the organization

The Department of Information and Computing Sciences is nationally and internationally renowned for its fundamental and applied research in computer science and information science. In our constantly changing (digital) society, the department of Information and Computing Sciences is constantly looking for new, realistic ways to push the boundaries of both science and social application. We contribute to innovative information technologies through the development and application of new concepts, theories, algorithms, and software methods. Relevant areas

of interdisciplinary research include Game Research, Foundations of Complex Systems, Applied Data Science and Artificial Intelligence.

The Department has, among others, close collaborations with the University Medical Center, the Departments of Physics and Mathematics, and the Faculties of Humanities and Geosciences. The Department offers Bachelor's programmes in Computer Science and Information Science, and six English language Research Master's programmes in Artificial Intelligence, Business Informatics, Computing Science, Human-Computer Interaction, Game and Media Technology, and Applied Data Science. High enrolment figures and good student ratings make the education very successful. The Department currently comprises 17 Chairs and 109 other scientific staff, including Postdocs and PhD candidates.

At the Faculty of Science there are 6 departments to make a fundamental connection with: Biology, Chemistry, Information and Computing Sciences, Mathematics, Pharmaceutical Sciences and Physics. Each of these is made up of distinct institutes which work together to focus on answering some of humanity's most pressing problems. More fundamental still are the individual research groups - the building blocks of our ambitious scientific projects.

Utrecht University is a friendly and ambitious university at the heart of an ancient city. We love to welcome new scientists to our city - a thriving cultural hub that is consistently rated as one of the world's happiest cities. We are renowned for our innovative interdisciplinary research and our emphasis

on inspirational research and excellent education. We are equally well-known for our familiar atmosphere and the can-do attitude of our people. This fundamental connection attracts Researchers, Professors and PhD candidates from all over the globe, making both the university and the Faculty of Science a vibrant international and wonderfully diverse community.

### Additional information

Do you have any questions that you would like an answer to first? No problem. Please contact Professor Marc van Kreveld (Research Director) via [M.J.vanKreveld@uu.nl](mailto:M.J.vanKreveld@uu.nl).

Do you have a question about the application procedure? Then please send an email to [science.recruitment@uu.nl](mailto:science.recruitment@uu.nl).

### Apply

Everyone deserves to feel at home at our university. We welcome employees with a wide variety of backgrounds and perspectives and we attach great importance to diversity and gender balance. Applicants are encouraged to mention any personal circumstances that need to be taken into account, for example parental leave or military service.

If you have the expertise and the experience to excel in this role, then simply respond via the **"Apply now"** button! Please enclose:

- your letter of motivation;
- your curriculum vitae;
- your research and teaching statements;
- the names, telephone numbers, and email addresses of at least two

references.

Please also specify which area(s) (Software engineering, Artificial Intelligence, Data Science or Persuasive Technologies & Serious Gaming) you are interested in.

If you prefer a part-time appointment, you are also invited to apply, stating the desired part-time ratio.

If this specific opportunity is not for you, but you know someone who may be interested, please forward the link to them.

*Please note: Due to the current situation regarding the Corona virus (COVID-19) the process of selection and interviews is subject to change. Initial interviews will most likely be conducted online.*

### Some connections are fundamental - Be one of them

The application deadline is 01/11/2020

## University of Arizona

### Postdoc position in Computer Security Education

The purpose of this postdoctoral position is to run the project "LIGERLabs: Educational Modules for (Anti-)Reverse Engineering" that was recently funded by NSF under the SaTC/EDU program.

This work builds lectures, tools, and exercises to improve students' abilities in Reverse Engineering and Anti-Reverse Engineering. The goal is threefold: to give students the mental tools necessary to understand the low-level nature of many of the security issues seen today, to increase student proficiency

in dissecting and analyzing different forms of executable code, and to ensure students are familiar with techniques for protecting against such attacks.

The successful candidate will lead this project, direct undergraduate students, and build open source pedagogical artifacts. They will also conduct studies of students of different backgrounds in order to build up a schedule of exercises of appropriate complexity.

The work will make use of previous tools built by our group, in particular Tigress (<https://tigress.wtf>), RevEngE (<http://revenge.cs.arizona.edu>), and SandMark (<http://sandmark.cs.arizona.edu>).

To apply, visit <https://arizona.csod.com/ux/ats/careersite/4/home/requisition/2353?c=arizona>.

## University of British Columbia

### *Tier 2 CRC Tenure-Track Assistant Professor in Quantum Algorithms*

The Department of Electrical and Computer Engineering at the University of British Columbia Vancouver campus invites applications for an appointment of a Natural Sciences and Engineering Research Council (NSERC) Tier 2 Canada Research Chair in the area of quantum algorithms, quantum information and software, and related disciplines. Application areas for quantum computers such as optimization, sensing, and artificial intelligence are also of interest.

Successful applicants will be expected to develop an independent research program

that complements the department's existing strengths, assume teaching responsibilities at the undergraduate and graduate levels, and serve the department and university in various capacities. Applicants must exhibit clear interest in and potential to achieve excellence in research, teaching, and service to the academic community.

Appointments will be at the rank of Assistant Professor. Applicants should hold a doctoral degree in a relevant discipline and must be eligible to obtain a full or limited licence with Engineers and Geoscientists British Columbia within five years of appointment.

Tier 2 Canada Research Chairs are intended for exceptional emerging scholars (i.e., candidates must have been active researchers in their field for fewer than 10 years from their degree at the time of nomination). Applicants who are more than 10 years from having earned their highest degree (and where career breaks exist, such as maternity, parental or extended sick leave, clinical training, etc.) may have their eligibility for a Tier 2 Chair assessed through the program's Tier 2 justification process. Nominations are subject to review by the CRC Secretariat, and appointment as a CRC is conditional upon their approval. Please consult the Canada Research Chairs website [www.chairs.gc.ca](http://www.chairs.gc.ca) for full program information, including further details on eligibility criteria.

In assessing applications, UBC recognizes the legitimate impact that leaves (e.g., maternity leave, leave due to illness) can have on a candidate's record of research achievement. These leaves will be taken into careful

consideration during the assessment process.

Please submit applications to <https://ece.ubc.ca/our-department/openings/faculty-positions>. Applications should include a cover letter, curriculum vitae, research statement, teaching statement, and copies of two publications. We also invite candidates to include a diversity statement, addressing how they will contribute to a diverse, equitable, and inclusive academic environment at UBC. Please direct enquiries about the position and the application process to [chair-recruiting@ece.ubc.ca](mailto:chair-recruiting@ece.ubc.ca).

Applications will be accepted until December 1, 2020. The anticipated start date is July 1st, 2021, but is negotiable.

The University of British Columbia is a global centre for research and teaching that is ranked among the top 40 universities in the world. The Department of Electrical and Computer Engineering is one of the largest academic units at UBC, with approximately 400 graduate students and 1,000 undergraduate students. Our department is anticipating significant renewal over the next few years as we strengthen key areas in high demand. Our research and teaching activities benefit from strong links to the Stewart Blusson Quantum Matter Institute (QMI), the Institute for Computing, Information and Cognitive Systems (ICICS), the Advanced Materials and Process Engineering Laboratory (AMPEL), and as well as strong collaborations with the Department of Computer Science and other units within the Faculty of Applied Science. The department is situated on UBC's Point Grey campus in Vancouver, British Columbia. Vancouver is consistently rated

one of the world's most livable cities. For more information about the Department of Electrical and Computer Engineering, please visit <https://ece.ubc.ca/>.

In accordance with UBC's CRC Equity, Diversity, & Inclusion Action Plan, and pursuant to Section 42 of the BC Human Rights code, the selection will be restricted to members of the following designated groups: women, visible minorities (members of groups that are racially categorized), persons with disabilities, and Indigenous peoples. Applicants to Canada Research Chair positions are asked to complete the equity survey ([https://ubc.ca/qualtrics.com/jfe/form/SV\\_6WJHol7SfPxRMu9](https://ubc.ca/qualtrics.com/jfe/form/SV_6WJHol7SfPxRMu9)) as part of the application, and candidates from these groups must self-identify as belonging to one or more of the designated equity groups to be considered for the position. Because the search is limited to those self-identifying as members of designated equity groups, candidates must also provide their name to be considered.

UBC welcomes and encourages applications from people with disabilities. Accommodations are available on request for all candidates taking part in all aspects of the selection process. To confidentially request accommodations, please contact the Department Head, Steve Wilton at [stevew@ece.ubc.ca](mailto:stevew@ece.ubc.ca)

Personal information is collected under the authority of sections 26(a) and 26(c) of the BC Freedom of Information and Protection of Privacy Act. The information you provide will only be used to determine whether you qualify for participation in this

hiring process. Data will be collected by the Equity & Inclusion Office and only the names of those who identify as women, visible minorities (member of groups that are racially categorized) and/or Indigenous peoples will be shared with the search committee. Currently, UBC has a gap in representation for people with disabilities. Until such time as this is remedied, the names of those self-identifying as having a disability will be provided separately to the search committee. Responses will be stored in a secure database.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the BC Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Métis, Inuit, or Indigenous person. All qualified candidates are encouraged to apply, however, Canadians and permanent residents of Canada will be given priority.

## University of California, Irvine

### *Assistant Professor (Tenure-Track) Position in Embedded Computer Systems*

The Department of Electrical Engineering and Computer Science at the University of California, Irvine invites applications for an Assistant Professor (Tenure-Track) Position in

Embedded Computer Systems.

Areas include, but are not limited to, hardware/software and algorithmic foundations dealing with various aspects of embedded computer systems design; cyber-physical systems design; Internet-of-things; design for reliability, security, and energy efficiency; hardware/software co-design; system architecture; Edge-AI (embedded machine learning and data processing); design automation of embedded hardware and software; design tools and methods for emerging technologies; and embedded software design.

Applicants are expected to have a doctoral degree, at the time of hire, in Electrical Engineering, Computer Science, or a related field from an accredited university. Successful candidates will be innovative leaders that can develop a vigorous externally funded research program, maintain a strong publication record, advise students, and provide outstanding teaching at the undergraduate and graduate levels.

Applications should include a cover letter, a statement of research and teaching interests, a curriculum vitae including the list of publications, up to three key publications (optional), a statement describing commitment to diversity, and the names and contact information of at least three to five references. References will not be contacted until later stages of consideration, in consultation with the candidate.

Applications should be submitted electronically. Instructions may be found at <https://recruit.ap.uci.edu/JPF06444>. The screening will begin immediately upon receipt

of a completed application. Applications will be accepted until the position is filled, although maximum consideration will be given to applications received by January 1, 2021. The closing date is February 15, 2021.

The University of California, Irvine is part of the premier public university system in the world. UCI is a member of the Association of American Universities (AAU), is ranked as a top ten public university by U.S. News and World Report, and was identified by the New York Times as No. 1 among U.S. universities that do the most for low-income students. UCI is located in Orange County, 4 miles from the Pacific Ocean, and 45 miles south of Los Angeles. Irvine is one of the safest communities in the U.S. and offers a very pleasant year-round climate, numerous recreational and cultural opportunities, and one of the highest-ranked public-school systems in the nation.

The University of California is committed to creating and maintaining a community dedicated to the advancement, application, and transmission of knowledge and creative endeavors through academic excellence, where all individuals who participate in University programs and activities can work and learn together in a safe and secure environment, free of violence, harassment, discrimination, exploitation, or intimidation. With this commitment as well as a commitment to addressing all forms of academic misconduct, UC Irvine conducts institutional reference checks for candidates finalists to whom the department or other hiring unit would like to extend a formal offer of appointment into Ladder

Rank Professor or Professor of Teaching series, at all ranks (i.e., assistant, associate, and full). The institutional reference checks involve contacting the administration of the applicant's previous institution(s) to ask whether there have been substantiated findings of misconduct that would violate the University's Faculty Code of Conduct. To implement this process, UC Irvine requires all candidates of Ladder Rank Professor or Professor of Teaching series, at all ranks (i.e., assistant, associate, and full) to complete, sign, and upload the form entitled "Authorization to Release Information" into AP RECRUIT as part of their application. If the candidate does not include the signed authorization to release information with the application materials, the application will be considered incomplete. As with any incomplete application, the application will not receive further consideration. Although all applicants for faculty recruitments must complete the entire application, only finalists (i.e., those to whom the department or other hiring unit would like to extend a formal offer) considered for Ladder Rank Professor or Professor of Teaching series, at all ranks (i.e., assistant, associate, and full) positions will be subject to institutional reference checks.

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

Information about the department is available at: <http://engineering.uci.edu/dept/eecs>

## University of California - San Diego

### *CSE - Assistant Teaching Professor*

The University of California, San Diego Computer Science and Engineering Department seeks applications for an Assistant Teaching Professor (formal title Lecturer with Potential Security of Employment). Teaching Professors are faculty members with a stronger emphasis on teaching who also engage in education and/or disciplinary scholarship. The normal teaching load for Teaching Professors is two courses per quarter at the undergraduate and/or graduate level, including core early undergraduate courses.

We seek candidates who have demonstrated that they are promising computer science and engineering educators, and who are interested in a teaching-focused career.

Candidates who have engaged in activities or efforts to educating a broad and diverse group of students and in working to increase the participation and success of students from groups underrepresented in computer science are preferred.

An active scholarship program is expected. Applicants must have an expectation of completing a Ph.D. in computer science (including CS education) or a related area by July 1, 2021. Applicants must have prior teaching experience as a TA or lead instructor.

UC San Diego is deeply committed to education and is a leader in undergraduate computer science education at a large scale. More information about the CSE department and its Teaching Faculty can be found at <http://www.cse.ucsd.edu/> and <https://csed.eng.ucsd.edu/>.

We encourage candidates to send applications as soon as possible. Applications submitted by December 1 will receive full consideration; review will continue until the position is filled.

For more information and to apply please visit <https://apol-recruit.ucsd.edu/JPF02545>

UC San Diego is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or status as a protected veteran.

## University of Chicago

### *Assistant Professor/Associate Professor/Professor, Computer Science*

The Department of Computer Science in the Physical Sciences Division at the **University of Chicago** invites applications for tenure-track faculty positions at the rank of Assistant Professor, and tenured faculty positions at the ranks of Associate Professor and Professor. The search is open with respect to subfield, but we encourage applications from investigators

in AI/Machine Learning, Natural Language Processing, Robotics, Human-Computer Interaction, Quantum Computing, and Security.

Members of the faculty in our department are expected to lead research programs that will produce significant contributions to a field, and teach and mentor at the undergraduate and graduate levels.

The Department of Computer Science ([cs.uchicago.edu](http://cs.uchicago.edu)) is the hub of a large, diverse community of researchers focused on advancing the foundations of computing and driving its most advanced applications. We encourage connections with researchers across the university in such areas as bioinformatics, mathematics, molecular engineering, natural language processing, statistics, public policy, and social science, among others: the University's culture is highly collaborative.

The University of Chicago is in the midst of an ambitious, multi-year effort to significantly expand its computing and data science activities including a recently-opened, state-of-the-art home for the Department of Computer Science.

Completion of all requirements for a Ph.D. in Computer Science or a related field is required at the time of appointment. Candidates for Associate Professor and Professor positions must have evidence of leadership in their field and successful independent research.

Applications must be submitted online through the University of Chicago's Academic Jobs website:

Assistant Professor: <http://apply.interfolio.com/79574>

Associate Professor: <http://apply.interfolio.com/79575>

Professor: <http://apply.interfolio.com/79576>

Review of applications will begin on November 15, 2020 and will continue until all positions are filled.

The following materials are required:

- cover letter;
- curriculum vitae including a list of publications;
- statement describing past and current research accomplishments and outlining future research plans;
- description of teaching philosophy and experience;
- applicants are required to request at least three confidential letters of recommendation via Interfolio.

The following materials are optional:

- up to three sample publications

*We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.*

*The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.*

*Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email [equalopportunity@uchicago.edu](mailto:equalopportunity@uchicago.edu) with their request.*

## University of Chicago

*Assistant Professor/Associate Professor/Professor, Data Science*

The **University of Chicago** invites applications for tenure-track faculty positions at the rank of Assistant Professor, and tenured faculty positions at the ranks of Associate Professor and Professor in the area of **Data Science**. The University of Chicago is initiating an ambitious plan for research and education in Data Science including new academic programs at the undergraduate and graduate levels and new cross-disciplinary research programs. The initiative is a collaboration among the Department of Computer Science, the Department of Statistics, and other units on campus. The search is open with respect to subfield, but we encourage applications from researchers focused on developing the theory and practice of Data Science as an emerging field. Appointments may be made in either department, jointly between Statistics

and Computer Science, or jointly with another department in the University.

Members of the faculty are expected to lead research programs that will produce significant contributions to a field, and teach and mentor at the undergraduate and graduate levels. The Data Science initiative focuses on research that advances fundamental theories at the intersection of data science, artificial intelligence, and computing in the context of real world and domain specific problems.

The Departments of Computer Science ([cs.uchicago.edu](http://cs.uchicago.edu)) and Statistics ([stat.uchicago.edu](http://stat.uchicago.edu)) are home to a diverse community of researchers focused on advancing the foundations of statistics and computing, and driving their most advanced applications. The larger data science community at the University of Chicago includes the Center for Data and Applied Computing, the Toyota Technological Institute at Chicago (TTIC), the Polsky Center for Entrepreneurship and Innovation, the Mansueto Institute for Urban Innovation and Argonne National Laboratory.

Completion of all requirements for a Ph.D. in Computer Science, Statistics, or a related field is required at the time of appointment. Candidates for Associate Professor and Professor positions must have evidence of leadership in their field and successful independent research.

Applications must be submitted online through the University of Chicago's Academic Jobs website:

Assistant Professor: <http://apply.interfolio.com/79577>

Associate Professor: <http://apply.interfolio.com/79578>

Professor: <http://apply.interfolio.com/79579>

Review of applications will begin on November 15, 2020 and will continue until all positions are filled.

The following materials are required:

- cover letter;
- curriculum vitae including a list of publications;
- statement describing past and current research accomplishments and outlining future research plans;
- description of teaching philosophy and experience;
- applicants are required to request at least three confidential letters of recommendation via Interfolio.

The following materials are optional:

- up to three sample publications

*We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.*

*The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual*

*orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's [Notice of Nondiscrimination](#).*

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## The University of Chicago

*Instructional Professor in Computational Social Science*

### Description

The Division of Social Sciences at the University of Chicago invites applicants for a position as Instructional Professor (IP) in the MA program in Computational Social Science (MACSS, [macss.uchicago.edu](http://macss.uchicago.edu)) capable of teaching introductory courses in computer science with applications in social scientific research.

This is a full-time, career-track teaching position. The start date is flexible, and will fall between July 1 and September 1, 2021. The initial two-year appointment is renewable with opportunity for promotion. Appointments at the Assistant, Associate, and Full Instructional Professor rank will be considered.

The IP will annually teach five courses, including some combination of machine learning, modeling, simulation, data visualization, high performance computing, cloud computing,

application development, or introductions to important programming languages (including R or Python). Other courses may cover applied research across some field or research problem in the social sciences.

In addition, the IP will advise MA students; advise a limited number of MA theses as the primary supervisor; hire and manage teaching assistants; help lead the MACSS Computation Workshop; contribute to program admissions, staff hiring, and student recruitment; help train our doctoral student preceptors; and contribute to the intellectual life and administrative needs of the program.

The position includes support for professional development. The IP will join a dynamic community of social science researchers.

### Qualifications

Applicants must have a PhD in computer science, data science, sociology, economics, political science, psychology, or a related discipline. Industry experience is valued, but not required. The IP must have the PhD must be in hand prior to the start date. Teaching experience is required.

### Application Instructions

Applicants must apply online at the University of Chicago's Interfolio website at [apply.interfolio.com/79998](http://apply.interfolio.com/79998). The following materials must be submitted: 1) a cover letter, outlining the applicant's prior computational training, prior teaching or mentoring experience, and suggested course offerings in our MA program; 2) a curriculum vitae; 3) an article-length writing sample applying a computational research design; 4) at least one course

syllabus from prior teaching or with an eye to future offerings; 5) course evaluations or other evidence of past excellence in teaching or mentoring; and 6) three letters of reference.

Review of applications will begin on December 1 and will continue until the position is filled or the search is closed.

This position will be part of the Service Employees International Union.

### Equal Employment Opportunity Statement

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange.

The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's [Notice of Nondiscrimination](#).

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email [equalopportunity@uchicago.edu](mailto:equalopportunity@uchicago.edu) with their request.

## University of Chicago

### Senior Instructional Professor

#### Description

The Division of Social Sciences at the University of Chicago invites applicants for a position on the Senior Instructional Professor track (Senior Assistant Instructional Professor, Senior Associate Instructional Professor, or Senior Instructional Professor, depending on the candidate's experience and qualifications), for appointment in the Master of Arts Computational Social Science (MACSS) and the College. This is a full-time, career-track teaching position beginning July 1, 2021. The initial five-year appointment is renewable with opportunity for promotion. The appointee will teach four courses per year that contribute to the MACSS curriculum, plus one non-credit workshop in computational social science. This is a leadership position and the appointee will also hold the title of Associate Director in MACSS. In addition to teaching, the appointee will, in consultation with the Faculty Director of MACSS: provide leadership in vision, planning, and promotion of MACSS within and beyond the University; develop, implement, and oversee curricular and co-curricular programs including developing new curricular offerings and co-curricular programs to advance student learning; directly supervise and evaluate other teaching personnel, including Instructional Professors, Teaching Fellows, and preceptors in MACSS; and develop, oversee, and mentor research opportunities for graduate students. During the term of appointment, the Senior Lecturer will also have the opportunity to teach one or two courses as part of the Summer Institute in Social Research Methods (Computing for the Social

Sciences, Data Mining and Data Visualization, or equivalent courses).

#### Qualifications

Candidates must have the PhD in hand prior to the start date, a demonstrated record as a degreed professional designing and teaching courses to undergraduate and graduate students at a selective research university, demonstrated experience in research and practice related to Computational Social Science, and proven experience successfully managing a program and supervising academic personnel.

#### Application Instructions

Applicants are required to apply online through the University of Chicago's Interfolio website at [apply.interfolio.com/79999](https://apply.interfolio.com/79999). Applicants are required to upload the following materials: (1) cover letter; (2) curriculum vitae (3) syllabi for two proposed courses; (4) a writing sample/publication; and (5) the names and contact information for three references. References will only be contacted for shortlisted candidates. Review of applications will begin December 1 and will continue until the position is filled.

#### Equal Employment Opportunity Statement

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.

The University of Chicago is an Affirmative

Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email [equalopportunity@uchicago.edu](mailto:equalopportunity@uchicago.edu) with their request.

## University of Colorado Colorado Springs

### Instructor - Computer Science

The University of Colorado Colorado Springs (UCCS) has a job opening for a full-time, non-tenure-track instructor in Computer Science.

For more information about UCCS and for details about the position and the application process, please visit our [careers page](#).

## University of Georgia

### Postdoctoral Research Associate

#### Use machine learning to model spatiotemporal dynamics of cilia and identify abnormalities.

We are looking to hire one postdoctoral researcher with a background in statistical machine learning, computer vision, and/or biomedical imaging. Strong skills in computer programming, statistics, and linear

algebra are essential. Researchers with experience in bioinformatics, cellular biology, infectious diseases, or other computational biology backgrounds are encouraged to apply. Individuals from traditionally underrepresented groups in STEM are likewise especially encouraged to apply.

Join Prof. Shannon Quinn and his interdisciplinary research group at the University of Georgia and help develop spatiotemporal models of ciliary motion in order to detect and ultimately help diagnose ciliopathies in humans. Cilia are microscopic hairlike structures that line the exteriors of cells in the throat, nose, lungs, kidneys, and brain. In humans, they beat in rhythmic patterns to clear particulates and pathogens, and when their regular motion is perturbed, numerous multi-organ pathologies result. While no objective method for identifying these perturbations exists, we have developed a proof of concept drawing from dynamic textures in machine vision.

The three main efforts of the project are: (1) deriving a robust segmentation procedure to automatically identify regions of cilia in videos, (2) building a spatiotemporal model of ciliary motion dynamics to recognize type and extent of motion perturbations, and (3) deploying these algorithms in an open source web framework, CiliaWeb, for use by clinicians and domain researchers that incorporates feedback mechanisms into the model predictions.

Preferred candidates should also be proficient in Python and at least one of the many popular deep learning libraries (e.g., PyTorch, TensorFlow, Keras), familiar with

the git versioning system, and willing to conduct their research according to the principles of Open Science: reproducibility, benchmarking, pre-registration, pre-publication, and open licensing. Successful candidates are also expected to be team players who can fill a leadership role in executing a research agenda, and lead by example as a mentor for predoctoral and undergraduate student researchers.

There is one position available. This is a one-year term appointment with the possibility of extension contingent upon continued funding and successful performance.

Interested candidates should submit a cover letter and curriculum vitae to this UGA Jobs posting: <https://www.ugajobsearch.com/postings/166659>

## University of Manitoba

### *Indigenous Scholar*

#### *Faculty of Science - Position # 29312 and 29313*

The Faculty of Science at the University of Manitoba invites applications from Indigenous (e.g., First Nations (status or non-status), Métis or Inuit) Scholars **in any field of science** for two full-time tenured or tenure-track positions at the rank of Assistant or Associate or Full Professor, commencing July 1, 2021, or on a date mutually agreed upon. Rank and salary will be dependent on qualifications and experience. Candidates who are either of Canadian Indigenous background or are Indigenous in their respective countries/territories and whose work complements and supports the education, research, and

Indigenous initiatives within the Faculty of Science and at the University of Manitoba are invited to apply.

We seek an emerging or established scholar with a commitment to excellence in teaching, research and community outreach. The successful candidate will have a Ph.D. in any field of science and have demonstrated experience in, and commitment to, leadership and mentorship related to Indigenous student achievement and engagement.

Relevant research, industry, or community experience or other distinguishing attributes are considered an asset. Duties will include undergraduate teaching, graduate teaching, and student research supervision; research, including the establishment of an externally funded research program; and service and community activities. The relative division of activities for the successful candidate between teaching, research, and service/community activities are flexible. Salary will be commensurate with experience and qualifications. Appointment can be in any department in the Faculty of Science or joint across multiple departments.

The Faculty of Science comprises the departments of Biological Sciences, Chemistry, Computer Science, Mathematics, Physics and Astronomy, Microbiology, and Statistics and features many additional interdisciplinary programs and activities, at both the undergraduate and graduate levels that cross departmental boundaries. The Faculty of Science 50th Anniversary Challenges for the coming decades commit us to important work in the following challenge areas: Explore Life on the Smallest Scales, Harness Microbial and

Genetic Worlds, Transform Tomorrow's Devices, Make Computers our Sixth Sense, Revolutionize Science and Math Literacy for the 21st Century, Expand our Contribution to the Innovation Ecosystem, Leverage the Origins of the Universe, Reconnect Nature's Networks, and Cultivate Remote and Rural Communities. The Faculty of Science has a deep commitment to educational excellence and a strong and active community of science educators, including the Pedagogy and Learning Science working group, and features the newly created Manitoba Institute for Science Teaching.

The Faculty of Science has launched a major new initiative, the Wawatay Program, in order to develop closer ties to Indigenous communities, dramatically grow the number of Indigenous science graduates, infuse Indigenous science approaches and perspectives into science education and strengthen mutual research. In summer of 2021, we will be hosting a major new international conference, "The 2021 North America Indigenous Science Conference".

The University is located in Winnipeg, the largest city in the province of Manitoba. The city has a rich cultural environment and the region provides exciting opportunities for outdoor exploration and recreation in all seasons. Learn more about Winnipeg at [www.winnipeg.ca](http://www.winnipeg.ca).

Manitoba's Indigenous population is young and rapidly growing. Statistics Canada census data suggest that Indigenous peoples will comprise nearly 19 per cent of Manitoba's population by 2026. The University of Manitoba's role in reconciliation,

its connections with Indigenous students, partners and communities, and its commitment to Indigenous achievement are central to the kind of future the University seeks to create.

The University of Manitoba campuses are located on original lands of Anishinaabeg, Cree, Oji- Cree, Dakota, and Dene peoples, and on the homeland of the Métis Nation. Creating Pathways to Indigenous Achievement is a key priority for the University, as identified in its 2015-2020 strategic plan, Taking Our Place. Home to a vibrant Indigenous community, including 2,400 First Nations, Métis and Inuit students, the U of M has one of the largest Indigenous student populations in the country. Honoured to be chosen as host of the National Centre for Truth and Reconciliation, the U of M is dedicated to advancing Indigenous research and scholarship, and to becoming a centre of excellence for this work.

The University of Manitoba is strongly committed to equity and diversity within its community and especially welcomes applications from women, members of racialized communities, Indigenous persons, persons with disabilities, persons of all sexual orientations and genders, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Indigenous Canadian citizens and permanent residents will be given priority. Applicants must, at application, declare that he/she/they self-identifies as Indigenous (First Nations, Metis or Inuit) Canadian, or as Indigenous in their respective countries/territories.

If you require accommodation supports during the recruitment process, please contact [UM.Accommodation@umanitoba.ca](mailto:UM.Accommodation@umanitoba.ca) or 204-474-7195. Please note this contact information is for accommodation reasons only.

Applications, including a curriculum vitae, a two-page description of teaching philosophy, a two-page summary of research interests accessible to an interdisciplinary audience, a three-page research plan, a one-page plan for leadership and mentorship in the context of Indigenous student achievement in the department and Faculty of Science, the name and contact information (phone and e-mail) of three referees, and Indigenous self-declaration verification should be sent by email in a single pdf file to [Indigenous\\_Scholars.Science@umanitoba.ca](mailto:Indigenous_Scholars.Science@umanitoba.ca).

Priority will be given to candidates who apply before **November 30, 2020**, but the search will remain open until the position is filled.

Application materials, including letters of reference, will be handled in accordance with the Freedom of Information and Protection of Privacy Act. Please note that curricula vitae may be provided to participating members of the search process.

## University of Michigan

### *Computer Science & Engineering Faculty Positions*

**Computer Science and Engineering (CSE) at the University of Michigan** College of Engineering invites applications for multiple tenure-track and teaching faculty (lecturer) positions, as part of its aggressive long-term growth plan. We seek exceptional candidates

in all areas across computer science and computer engineering, with special emphasis on candidates at the early stages of their careers; we also have a targeted search for an endowed professorship in theoretical computer science (the Fischer Chair). Qualifications include an outstanding academic record; an awarded or expected doctorate (or equivalent) in computer science, computer engineering, or a related area; and a strong commitment to teaching and research. We seek faculty members who commit to excellence in graduate and undergraduate education, will develop impactful, productive and novel research programs, and will contribute to the department's goal of eliminating systemic racism and sexism by embracing our culture of Diversity, Equity and Inclusion.

We encourage candidates to apply as soon as possible. Positions remain open until filled and applications can be submitted throughout the year. For more details on these positions and to apply, please visit <https://cse.engin.umich.edu/about/faculty-hiring/>.

The University of Michigan is one of the world's leading research universities, consisting of highly ranked departments and colleges across engineering, sciences, medicine, law, business, and the arts, with a commitment to interdisciplinary collaboration. CSE is a vibrant and innovative community, with over 70 world-class faculty members, over 300 graduate students, and a large and illustrious network of alumni. Ann Arbor is known as one of the best small cities in the nation, and the University has a strong dual-career assistance program.

Michigan Engineering's vision is to be the

world's preeminent college of engineering serving the common good. This global outlook, leadership focus, and service commitment permeate our culture. Our vision is supported by our mission and values that, together, provide the framework for all that we do. Information about our vision, mission and values can be found at <http://strategicvision.engin.umich.edu/>.

The University of Michigan has a storied legacy of commitment to Diversity, Equity and Inclusion (DEI). The Michigan Engineering component of the University's comprehensive, five-year, DEI strategic plan—with updates on our programs and resources dedicated to ensuring a welcoming, fair, and inclusive environment—can be found at: <http://www.engin.umich.edu/college/about/diversity>.

The University of Michigan is an equal opportunity/affirmative action employer and is responsive to the needs of dual-career families.

## University of Nevada, Reno

### *Assistant Professor in Robotics*

The Department of Computer Science and Engineering at the University of Nevada, Reno invites applications for one Tenure-Track Assistant Professor Faculty position in Robotics starting July 1, 2021. The new faculty member will help the CSE department expand their program in robotics, which is currently ranked 20th in the US by CSRankings. Areas of highest interest include but are not limited to: robot perception, learning and adaptive robot control, motion planning, human-robot interaction, field robotics, soft robotics, aerial

robotics and autonomous vehicles.

More details and application link here: <https://www.cse.unr.edu/R0122777>

## University of Nevada

### *Assistant/Associate Professor in Cybersecurity*

The Department of Computer Science and Engineering (CSE) at the University of Nevada, Reno (UNR) invites applications for one Tenure-track Assistant/Associate Professor Faculty position in Cybersecurity and Network Systems starting July 1, 2021. The Faculty will help the CSE department and the UNR Cybersecurity Center continue to build strong programs in cybersecurity and networks, contribute to efforts to secure research funding and teach courses. Areas of highest interest include but are not limited to: network (wired/wireless) security, hardware security, quantum cryptography/computing/networking, AI-enabled cybersecurity, and cloud security.

More details and application link here: <https://www.cse.unr.edu/R0122776>

## University of Notre Dame

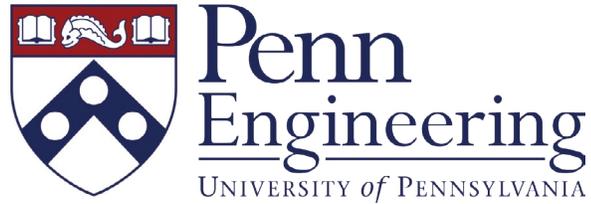
### *Tenure-Track Faculty Position in Data-Driven Advanced Manufacturing*

Content: The Department of Aerospace and Mechanical Engineering (<https://ame.nd.edu/>) and the Department of Computer Science and Engineering (<https://cse.nd.edu/>) at the University of Notre Dame invite applications for a tenure-track faculty position in the area of data-driven advanced manufacturing. This

faculty member may be appointed by either department or may hold a joint appointment with both departments. The position is part of a Data and Society cluster hiring initiative and the faculty member is anticipated to be affiliated with or to significantly interact with both the newly established iNDustry Labs ([industrylabs.nd.edu](http://industrylabs.nd.edu)) and Institute for Data & Society. The faculty member will be expected to initiate and lead solo and collaborative research projects in areas such as industrial automation and control, Industrial Internet-of-Things, machine learning and artificial intelligence applied to advanced manufacturing, big data and analytics including visualization and automatic handling, security of advanced manufacturing solutions, or other relevant areas that cross the boundaries of advanced manufacturing and data science.

Candidates at all ranks will be considered. The College of Engineering at the University of Notre Dame seeks to attract, develop, and retain excellent faculty members with strong records and future promise, especially those who will contribute to the diversity and excellence of the University's academic community through their research, teaching, and service. All applicants must have an earned doctorate in an appropriate discipline. Successful candidates will have demonstrated the potential to achieve an internationally distinguished record of scholarship, a diverse, externally funded research program, excellence in undergraduate and graduate education, and active service within both their research community and the university.

Applicants should submit a cover letter, CV, research statement, teaching statement, and



## CIS Tenure or Tenure-track Positions 2021

The School of Engineering and Applied Science at the University of Pennsylvania is growing its faculty by 33% over a five year period. As part of this initiative, the Department of Computer and Information Science is engaged in an aggressive, multi-year hiring effort for several tenure-track positions at the Assistant, Associate, and Full Professor levels, with an emphasis on junior appointments.

We seek individuals with stellar research achievement and potential, who will excel in teaching undergraduate and graduate courses and take a position of international leadership in defining their field of study. Leadership in cross-disciplinary collaborations is of particular interest. Successful applicants will find Penn to be a stimulating environment conducive to professional growth. This position will start July 1, 2021.

We seek individuals who embrace and reflect diversity in the broadest sense. Our faculty participate in departmental and school-level efforts to promote Diversity, Equity and Inclusion, and to work closely with students to identify and address diversity challenges. We request a discussion of candidates' experiences in establishing and maintaining supportive, inclusive environments for diverse student communities, and what plans they have for being involved in diversity efforts at Penn.

### Qualifications:

Applicants must have a PhD in Computer Science or relevant discipline. We are looking for exceptional candidates in all areas of computer science, with special preference to computer security, machine learning, data science, information visualization, and human-computer interaction. We are especially interested in candidates whose interests are aligned with the school's strategic plan: <http://www.seas.upenn.edu/PennEngineering2020>.

### Application Instructions:

To ensure full consideration, applicants are encouraged to apply by November 30th, 2020. However, applications will be accepted until positions are filled. Please submit a cover letter, curriculum vitae, research statement, teaching statement, statement on inclusion and diversity, and names of 3 references. Other supporting documents are optional.

To Apply: <https://apptrkr.com/2022113>

### Equal Employment Opportunity Statement

*The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity and affirmative action employer. Candidates are considered for employment without regard to race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class. Questions or concerns about this should be directed to the Executive Director of the Office of Affirmative Action and Equal Opportunity Programs, University of Pennsylvania, 421 Franklin Building, 3451 Walnut Street, Philadelphia, PA 19104-6205; or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).*

contact information for three professional references via <http://apply.interfolio.com/77801>. To guarantee full consideration,

applications must be received by November 6, 2020; however, review of applications will continue until December 1, 2020.

## University of Notre Dame

### Multiple Open Positions

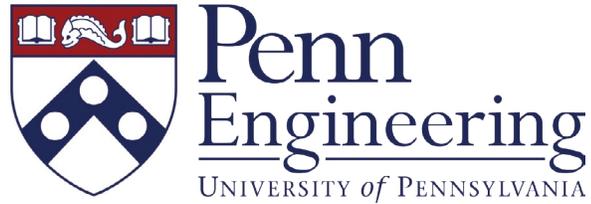
Content: The Department of Computer Science and Engineering at the University of Notre Dame invites applications for three tenure-track faculty positions. The Department seeks to attract, develop, and retain excellent faculty members with strong records and future promise. The Department is especially interested in candidates who will contribute to the diversity and excellence of the University's academic community through their research, teaching, and service.

One position is at the Assistant Professor rank and in any research area. Priority areas of research interest include the interface of computer science and biology (computational biology, bioinformatics, and related areas), robotics, human-computer interaction, and security.

Another position is at any rank and in the area of quantum computing. Candidates are expected to pioneer development of novel quantum computing applications in chemistry, physics, and engineering, to create tools for increasing the efficiency of quantum computers, and to develop quantum algorithms and techniques to address new application areas such as data analytics. The College of Engineering with the College of Science and the Center for Research Computing have established a partnership with the IBM Q Network and the department is seeking new faculty who wish to collaborate in this quantum computing effort.

The last position is at any rank at the intersection of ethics and technology. The

candidate hired into this position will be affiliated with the Technology Ethics Center (ND TEC).



## CIS Lecturer Positions 2021

The University of Pennsylvania's Department of Computer & Information Science is pleased to welcome applications for multiple teaching positions as a Lecturer or Senior Lecturer. It is a very exciting time to be engaged in computer science education at Penn, as we are experiencing incredible growth and interest in CS courses at all levels, are developing new on-campus and online learning programs, and are rapidly growing the size of our faculty.

We are seeking dedicated, accomplished, full-time instructors to teach introductory-sequence courses, undergraduate electives, and Master's-level courses in data science, machine learning, artificial intelligence, software systems, software engineering, cyber security, and other areas, starting in July 2021.

Additionally (see separate job posting), as part of our revamped teaching-track faculty career path, recently we introduced a Practice Assistant Professor position. This is a great career choice for teaching-focused faculty members who have a track record of published research in engineering education and are interested in developing and publishing on innovative pedagogical techniques. Applicants are encouraged to apply for any/all positions for which they think they may be qualified.

We seek individuals who embrace and reflect diversity in the broadest sense. Members of our teaching faculty participate in departmental and school-level efforts to promote Diversity, Equity and Inclusion, and to work closely with students to identify and address diversity challenges. As such, we request a discussion of candidates' experiences in establishing and maintaining supportive, inclusive environments for diverse student communities, and what plans they have for being involved in diversity efforts at Penn.

**Qualifications:** PhD in Computer Science or relevant discipline, or equivalent experience.

### Application Instructions:

To ensure full consideration, applicants are encouraged to apply by November 30th, 2020. However, applications will be accepted until positions are filled. Please submit a cover letter, curriculum vitae, teaching statement, statement on inclusion and diversity, and names of 3 references. Other supporting documents are optional.

To Apply: <https://apptrkr.com/2022104>

### Equal Employment Opportunity Statement

*The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity and affirmative action employer. Candidates are considered for employment without regard to race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class. Questions or concerns about this should be directed to the Executive Director of the Office of Affirmative Action and Equal Opportunity Programs, University of Pennsylvania, 421 Franklin Building, 3451 Walnut Street, Philadelphia, PA 19104-6205; or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).*

Applicants must submit a cover letter, CV, research statement, teaching statement, and contact information for three professional references. Applicants are also encouraged to submit an optional statement on equity, diversity, and inclusion. To guarantee full consideration, applications must be received by November 6, 2020; however, review of applications will continue until January 15, 2021. Information about all positions may be found at <https://cse.nd.edu/join-us/faculty-job-openings> including links to the specific job openings.

The Department offers the Ph.D. degree and undergraduate Computer Science and Computer Engineering degrees. Faculty members are expected to excel in classroom teaching and to lead highly-visible research projects that attract substantial external funding. More information about the department can be found at: <https://cse.nd.edu/>.

The University is an Equal Opportunity and Affirmative Action employer; we strongly encourage applications from women, minorities, veterans, individuals with a disability and those candidates attracted to a university with a Catholic identity.

## University of Sydney

*Multiple Academic School roles with the School of Computer Science*

- Join a growing Faculty and be part of a University that places amongst the world's best teaching and research institutions
- Located in the heart of Sydney's bustling inner west quarter, close to beaches, parks, public transport and shopping districts



**Penn  
Engineering**  
UNIVERSITY of PENNSYLVANIA

## CIS Practice Assistant Professor 2021

The University of Pennsylvania's Department of Computer & Information Science is pleased to welcome applications for teaching faculty under the Practice Professor track. It is a very exciting time to be engaged in computer science education at Penn, as we are experiencing incredible growth and interest in CS courses at all levels, are developing new on-campus and online learning programs, and are rapidly growing the size of our faculty.

We are seeking dedicated, accomplished, full-time faculty to teach introductory-sequence courses, undergraduate electives, and Master's-level courses in data science, machine learning, artificial intelligence, software systems, software engineering, cybersecurity, and other areas, starting in July 2021.

As part of our revamped teaching-track career path, our Practice Assistant Professor position seeks teaching-focused faculty members, who have a track record of research in engineering education and developing and publishing on innovative pedagogical techniques. Applicants who desire to pursue this track but do not yet have an extensive publication history are encouraged to apply also to our posting for a Lecturer position.

We seek individuals who embrace and reflect diversity in the broadest sense. Members of our teaching faculty participate in departmental and school-level efforts to promote Diversity, Equity and Inclusion, and to work closely with students to identify and address diversity challenges. As such, we request a discussion of candidates' experiences in establishing and maintaining supportive, inclusive environments for diverse student communities, and what plans they have for being involved in diversity efforts at Penn.

### Qualifications:

PhD in Computer Science or relevant discipline.

### Application instructions:

To ensure full consideration, applicants are encouraged to apply by November 30th, 2020. However, applications will be accepted until positions are filled. Please submit a cover letter, curriculum vitae, research statement, teaching statement, statement on inclusion and diversity, and names of 3 references. Other supporting documents are optional.

To apply: <https://apptrkr.com/2022084>

### Equal Employment Opportunity Statement

*The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity and affirmative action employer. Candidates are considered for employment without regard to race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class. Questions or concerns about this should be directed to the Executive Director of the Office of Affirmative Action and Equal Opportunity Programs, University of Pennsylvania, 421 Franklin Building, 3451 Walnut Street, Philadelphia, PA 19104-6205; or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).*

- Seeking outstanding academics to provide leadership and help create a world-class, internationally recognised Faculty for research and education excellence

## About the opportunity

The School of Computer Science at the University of Sydney (Sydney, Australia) is seeking applications for several academic positions at all levels. Successful applicants will have an excellent research record and be able to teach in a range of courses. The school is embarking on an exciting growth journey, adding several new positions, which will complement our core areas of strength and push the frontiers to new research areas.

We are particularly interested in the following fields of computer science: Graphics, Natural Language Processing, Advanced Data Storage, and Software Development and Testing. The level of appointment will be commensurate with qualifications and experience.

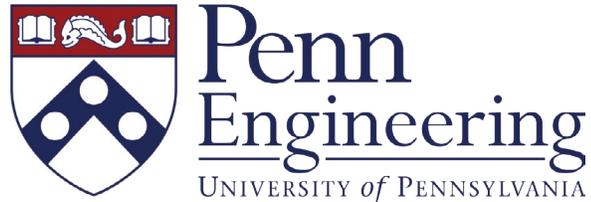
Successful applicants should expect an internationally competitive salary, a generous start-up package and a first-class research environment.

## About you

You will be expected to develop an outstanding independent research program, make internationally recognised advances, engage in collaborations within and outside the University, including with industry partners, contribute to innovative curriculum development and delivery at both undergraduate and graduate levels, and contribute to the management and leadership of the School and the University.

## Term and Remuneration

Successful candidates will be offered a full-time appointment. A competitive remuneration package will be negotiated dependent of level of appointment.



## ESE Tenured or Tenure-track Faculty Openings, 2020 - 2021

The School of Engineering and Applied Science at the University of Pennsylvania is growing its faculty by 33% over a five-year period. As part of this initiative, the **Department of Electrical and Systems Engineering** is engaged in an aggressive, multi-year hiring effort for multiple tenure-track positions at all levels. Candidates must hold a Ph.D. in Electrical Engineering, Computer Engineering, Systems Engineering, or related area. The department seeks individuals with exceptional promise for, or proven record of, research achievement, who will take a position of international leadership in defining their field of study and who will excel in undergraduate and graduate education. Leadership in cross-disciplinary and multi-disciplinary collaborations is of particular interest. We are interested in candidates in all areas that enhance our research strengths in:

- **Nanodevices and nanosystems** (nanoelectronics, MEMS/NEMS, power electronics, nanophotonics, nanomagnetism, quantum devices, integrated devices and systems at nanoscale); <https://apptrkr.com/2007356>
- **Circuits and computer engineering** (analog, RF, mm-wave, digital circuits, emerging circuit design, computer engineering, IoT, beyond 5G, and cyber-physical systems); <https://apptrkr.com/2007393>
- **Information and decision systems** (control, optimization, robotics, data science, machine learning, communications, networking, information theory, signal processing). <https://apptrkr.com/2008073>

Prospective candidates in all areas are strongly encouraged to address large-scale societal problems in energy, transportation, health, agriculture, food and water, economic and financial networks, social networks, critical infrastructure, and national security. We are especially interested in candidates whose interests are aligned with the school's strategic plan, <https://www.seas.upenn.edu/about/penn-engineering-2020/>

Diversity candidates are strongly encouraged to apply. Interested persons should submit an online application by following the links above and include curriculum vitae, research, teaching, and diversity statements, and at least three references. Review of applications will begin on January 4, 2021.

*The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity and affirmative action employer. Candidates are considered for employment without regard to race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class.*

## About us

The University of Sydney is Australia's first university and has an outstanding global

reputation for academic and research excellence. The School of Computer Science is strongly positioned within Australia and

worldwide. It is research intensive, with a strong synergy between research and teaching. The School maintains a strong tradition of research-led teaching matched by a commitment to excellence in innovation.

## How to apply

All applications must be submitted via the University of Sydney careers website. Visit <https://www.sydney.edu.au/about-us/careers-at-sydney.html> and search by the reference number *1092/0920C* to apply.

Applicants should include a CV, research statement, teaching statement, names and email of 3 references for junior and 6 references for senior candidates.

Closing date: 11:30pm, Monday 30 November 2020 (Sydney Time)

Late applications will be considered, but priority will be given to applications received before this date.

© The University of Sydney

The University reserves the right not to proceed with any appointment.

## University of Texas at Arlington

### *Multi-disciplinary Open Rank Faculty Positions*

The University of Texas at Arlington invites applications for 15 multi-disciplinary tenure-track/tenured open-rank faculty positions with a tentative start date in Fall 2021. One of UTA's goals is to increase the representation of historically underrepresented faculty,

including underrepresented minority faculty in general and women faculty in STEM fields. Increasing the representation of faculty members who understand, and have excelled despite facing race, gender-based, and ability barriers and biases is vital to the success and well-being of our students. Diversity is critical to academic excellence. As research demonstrates, diverse teams are more innovative, productive, and solve complex problems faster. The University of Texas at Arlington, located in the Dallas-Fort Worth Metroplex, is a Carnegie Research-1 "very high research activity" institution. With a student enrollment of approximately 60,000 globally, UTA is rapidly becoming one of the largest institutions in the State of Texas. U.S. News & World Report ranks UTA sixth in the nation for undergraduate ethnic diversity. The University is a Hispanic-Serving Institution and is the top four-year college in the nation for veterans on Military Times' 2020 Best for Vets list.

To apply, please go to <https://uta.peopleadmin.com/postings/12931> and submit your CV, research plans, statement on diversity, equity and inclusion, as well as unofficial teaching evaluations. Please also contact the search chairs for the Computer Science and Engineering department at [cli@uta.edu](mailto:cli@uta.edu) and [csallner@uta.edu](mailto:csallner@uta.edu) if you are interested in applying for one of these positions.

Review of applications will start immediately and will continue until the positions are filled.

UTA is an Equal Opportunity/Affirmative Action institution. Minorities, women, veterans and persons with disabilities are encouraged to

apply. Additionally, the University prohibits discrimination in employment on the basis of sexual orientation. A criminal background check will be conducted on finalists. The UTA is a tobacco free campus.

## University of Texas at Austin

### *Associate Professor and Assistant Dean for Diversity, Equity, and Inclusion*

The School of Information at the University of Texas at Austin invites applications for the Assistant Dean for Diversity, Equity, and Inclusion to start in Fall 2021. The Assistant Dean will be responsible for leading the school effort to establish a diverse, equitable, and inclusive environment for our faculty, staff, students and alumni. This position is a tenured position with the rank of Associate Professor and will have a reduced teaching load and summer compensation. We are seeking an established exceptional scholar and administrator with experience to create opportunities for diversity, equity, and inclusion. Areas of research and teaching focus are open, but should complement the existing strengths of the iSchool.

For more information, please visit <https://www.ischool.utexas.edu/about/jobs>.

## University of Texas at Austin

### *Assistant Professor of Social Justice Informatics*

The School of Information at the University of Texas at Austin invites applications for a

tenure-track Assistant Professor of Social Justice Informatics. We are particularly interested in information scholars who will focus on the redistribution of power to address inequities at the intersection of race, ethnicity, gender, and class. Specific areas of research focus may include access to information and technology, equity, diversity, participation, human development, human rights, public interest technology, and critical race theory, to name a few. Candidates focused on human-centered design for civic or social good are invited, especially those using design methodologies that include participation of and build capacity within communities.

For more information, please visit <https://www.ischool.utexas.edu/about/jobs>.

## The University of Texas at El Paso

### Tenure-Track Assistant Professor in Computer Science

The Department of Computer Science invites applications for an Assistant professor position starting fall 2021 in the areas of Artificial Intelligence and/or Engineering Education.

For details including required qualifications and application instructions, please visit our <https://www.utep.edu/employment>

*UTEP is an Equal Opportunity/Affirmative Action employer.*

## The University of Texas at El Paso

### Two Tenure-Track Assistant Professors In Computer Science

The Department of Computer Science invites applications for two Assistant Professor positions beginning in fall 2020. For information about these positions including required qualifications and application instructions, please visit our website at <https://utep.interviewexchange.com/jobofferdetails.jsp?JOBID=115743>

*The University of Texas at El Paso is an Equal Opportunity/Affirmative Action employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, genetic information, veteran status, sexual orientation or gender identity in employment or the provision of services.*

## University of Utah

### Assistant Professor (Lecturer)

The University of Utah's Entertainment Arts and Engineering (EAE) program is seeking to hire a teaching faculty member at the rank of assistant professor (lecturer), beginning either January 2021 or Fall 2021. This is a Career-Line Faculty position (research optional, non-tenure track) within the University's established promotion structure intended to be a long-term position with a renewable contract and multi-year appointments.

EAE is looking to hire a candidate with an interest in and knowledge of the

technical and/or engineering aspects of game development. Experience in game development with industry-standard processes, tools, and platforms, is highly desirable. The successful candidate will also have a strong interest in bringing to bear their expertise in and passion for the wider context of games scholarship and teaching to help prepare our students for success.

Candidates must hold a Ph.D. or other terminal degree in a technical field (e.g., Computer Science, Informatics). The successful candidate will share our vision of the power that games hold to transform players, groups and society, and will be passionate about teaching the diverse students within EAE and the University of Utah. Responsibilities include teaching broad-based undergraduate classes, technically-oriented graduate courses, as well as project-based studio courses, often in collaboration with other EAE faculty. We are excited about candidates who are, or want to be, active in a creative practice of game development broadly construed (e.g. indie, AAA, experimental, etc.). The faculty member is also expected to perform service at the program, university and professional level.

If you are interested in teaching the next generation's leaders in games and interactive entertainment, we strongly encourage you to apply.

The University of Utah's EAE Program is a world leader in games education, with top-ranked programs at both the undergraduate and graduate levels. Founded in 2007, EAE is a teaching program centered on the discipline

of games, with its programs consistently ranked in the top ten worldwide by Princeton Review since 2013. EAE programs were ranked #1 in the world in 2013, 2015 and 2016 and has been ranked in the top five worldwide for the last seven years. The EAE faculty is a collegial community of games scholars composed of artists, computer scientists, designers, games studies scholars, and social scientists who all work together to design and teach our courses. This diversity of background in our faculty is one of the core elements of our students' experiences.

The University of Utah is a Carnegie Research I institution located in Salt Lake City, the hub of a large metropolitan area with excellent cultural and recreational opportunities. Additionally, a vibrant local game development community offers opportunities for interesting collaborations. In their 2016 report on the videogame industry in the US, the Entertainment Software Association (ESA) described Utah as the 2nd best performing state for growth in the game industry since 2013. Further information about EAE and our current faculty can be found at <https://games.utah.edu/about-eae/>.

Interested candidates should provide a cover letter, curriculum vitae, teaching statement, and names and contact information for at least three references to be considered. Evidence of teaching effectiveness is strongly recommended if available. Applications must be submitted on-line. Review of applications will begin immediately and will continue until the position is filled. EAE is especially interested in qualified candidates who can contribute to the diversity of our academic community. We strongly encourage

underrepresented minority and women candidates to apply.

<http://utah.peopleadmin.com/postings/108330>

## University of Vermont

### *Assistant Professor*

The Department of Computer Science at the University of Vermont is seeking applicants for a tenure-track position at the rank of Assistant Professor, with duties to start in late August of 2021. We are especially interested in applicants with expertise in one or more of the following areas: programming languages and program analysis, system security and applied cryptography, data privacy, security in social networks, or fairness in AI and data science. Ideal candidates would show strong potential for contributing to the UVM Center for Computer Security and Privacy (<http://compsec.w3.uvm.edu>) and collaborating with the UVM research lab for programming languages, data privacy, and information security (<http://plaid.w3.uvm.edu>).

The applicant must have a PhD in Computer Science or a closely-related area. Competitive applicants will possess a significant track record of research excellence as appropriate to their seniority and be capable of outstanding teaching at the graduate and undergraduate levels. We are especially interested in scholars who will contribute to the growth of research efforts in UVM CS by building on existing strengths and developing new collaborations, and who will mentor graduate students effectively.

The University of Vermont, established in 1791, is a comprehensive research university with a current enrollment of 12,000+ undergraduate, graduate, and medical students. The scientific and academic environments in UVM's College of Engineering and Mathematical Sciences (CEMS), and throughout the UVM university community are dynamic, highly collaborative, and multi-disciplinary. Significant campus resources for research collaboration include: The Vermont Advanced Computing Core, The Vermont Complex Systems Center, The Larner College of Medicine, the Institute for Environmental Diplomacy & Security and the Gund Institute for Environment. The University's commitment to the growth of STEM disciplines, including Computer Science, is evidenced by the recent construction of the STEM Complex, its largest-ever capital project.

The University is located in Burlington, Vermont, about 90 miles south of Montreal. Burlington is often rated as the best small city in America for quality of living, and features year-round outdoor recreation and cultural events. Greater Burlington has a population of approximately 150,000 and enjoys a panoramic setting on Lake Champlain, bordered by the Adirondack and Green Mountains.

The University of Vermont is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other category legally protected by federal or state law.

The University of Vermont is especially interested in candidates who can contribute to the diversity and inclusive excellence of the academic community through their teaching, service and research, scholarship or creative arts. We are an educationally purposeful community seeking to prepare students to be accountable leaders in a diverse and changing world. Members of the University of Vermont community embrace and advance the values of Our Common Ground: Openness, Respect, Responsibility, Integrity, Innovation, and Justice. The successful candidate will demonstrate a strong commitment to the ideals of accessibility, inclusiveness, and academic excellence as reflected in the tenets of Our Common Ground. To that end, candidates must provide a diversity impact statement as part of the application detailing how they will further the diversity of the unit through their teaching and service at the University.

Application materials (5 documents) must be submitted online at <http://www.uvmjobs.com/postings/41936> (position number 00023964); cover letter with names and contact information for at least three references (these must also be entered into the online application system), at least one of which can comment on teaching; (2) current curriculum vitae identifying specific areas of expertise; (3) a detailed statement of research interests; (4) a statement of teaching philosophy and interests; and (5) a diversity impact statement.

Inquiries may be addressed to Dr. Joe Near, Search Committee Chairperson, at [jnear@uvm.edu](mailto:jnear@uvm.edu). Applications should be submitted by December 15 to ensure full consideration.

## University of Washington

*Assistant Teaching Professor in the Paul G. Allen School of Computer Science & Engineering*

### Position Description

The University of Washington's Paul G. Allen School of Computer Science & Engineering invites applications for two full-time Assistant Teaching Professor positions. These are non-tenure eligible faculty positions hired on multi-year appointments with a 9-month service period (plus summer opportunities) and an anticipated start date of September 1, 2021. We seek candidates with a strong commitment to teaching and student mentoring.

Our Teaching Professors are long-term educational professionals who combine instructional excellence with a variety of leadership, community building, outreach, pedagogy advances, and scholarship. Our school offers a highly collegial and collaborative culture, with a range of teaching and curriculum-development opportunities in lower-division and upper-division courses for majors and non-majors. The Seattle area is particularly attractive given the presence of significant industrial research laboratories as well as a vibrant technology-driven entrepreneurial community that further enhances the intellectual atmosphere.

The Allen School fosters a diverse and inclusive academic community as a fundamental part of our mission as a public educational institution (see <https://www.cs.washington.edu/diversity>). We encourage

applicants with a similar commitment to diversity and welcome learning how the applicant's experiences and future plans for teaching and service would support our commitment to diversity and inclusion. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, underrepresented minorities, individuals with disabilities, and covered veterans. The University is a first-round awardee of the National Science Foundation's ADVANCE Institutional Transformation Award to increase the advancement of women faculty in science, engineering, and math (see [www.engr.washington.edu/advance](http://www.engr.washington.edu/advance)). Moreover, the College of Engineering has consistently had one of the highest percentages of women faculty in the top 50 colleges of engineering (US News and World Report Undergraduate Rankings). Additionally, the University's Office for Faculty Advancement promotes the hiring, retention, and success of a diverse and inclusive faculty at the University of Washington.

### Qualifications

Applicants for teaching professor positions must have earned at least a Master's degree OR have acquired the equivalent expertise via several years of industry and/or teaching experience.

### Instructions

To ensure full consideration of your application, please submit all materials no later than November 30, 2020. Applications will only be accepted via Interfolio.

Please provide pdf files for the following requested materials: (1) your cover letter,

(2) a complete curriculum vitae, (3) teaching portfolio, and (4) diversity statement.

The teaching portfolio should address the following: teaching experience and interests, teaching philosophy and methods, and evaluation of teaching effectiveness. Optionally, applicants may choose to address course and curriculum design.

We encourage applications from individuals whose backgrounds or interests align with our commitment to diversity and the diversity statement should reflect on the applicant's past experiences and address future plans to contribute to a diverse and inclusive learning environment in the Allen School and the broader university community.

You are also asked to provide three (3) letters of reference. For any administrative issues or inquiries related to the search, please contact [frc@cs.washington.edu](mailto:frc@cs.washington.edu). For technical issues, please contact Interfolio staff at 877-997-8807 or [help@interfolio.com](mailto:help@interfolio.com).

APPLY <https://apply.interfolio.com/78531>

## Equal Employment Opportunity Statement

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

## Commitment to Diversity

The University of Washington is committed to building diversity among its faculty,

librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint (<http://www.washington.edu/diversity/diversity-blueprint/>). Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profile and responsibilities (<https://www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432>).

## University of Washington

*Assistant Professor, Associate Professor or Full Professor in the Paul G. Allen School of Computer Science & Engineering*

### Position Description

The University of Washington's Paul G. Allen School of Computer Science & Engineering invites applications for up to three tenure-track positions in a wide variety of technical areas in both Computer Science and Computer Engineering. Hires will be made at the Assistant (Tenure-track), Associate (Tenure-eligible), or Full (Tenure-eligible) Professor ranks, commensurate with experience and qualifications. The positions would be full-time, multi-year appointments with 9-month service periods and with an anticipated start date of September 1, 2021. Our school offers a highly collegial and collaborative culture, with broad interdisciplinary research ties across campus. We are leaders both in core computing and computer engineering research, and in research that applies computer science to solve pressing world challenges in medicine and global health, education, accessibility, developing world technology, and others.

The Seattle area is particularly attractive given the presence of significant industrial research laboratories, top technology companies, as well as a vibrant technology-driven entrepreneurial community that further enhances the intellectual atmosphere.

We look forward to learning how the applicant's experience or future plans for teaching, research, and service would support our commitment to diversity and inclusion.

The University is building a culturally diverse faculty and staff and strongly encourages applications from women, underrepresented minorities, individuals with disabilities and covered veterans. The University is a first-round awardee of the National Science Foundation's ADVANCE Institutional Transformation Award to increase the advancement of women faculty in science, engineering, and math (see [www.engr.washington.edu/advance](http://www.engr.washington.edu/advance)). Moreover, College of Engineering has consistently had one of the highest percentages of women faculty in the top 50 colleges of engineering (US News and World Report Undergraduate Rankings). Additionally, the University's Office for Faculty Advancement promotes the hiring, retention, and success of a diverse and inclusive faculty at the University of Washington.

All University of Washington faculty engage in teaching, research, and service.

### Qualifications

Applicants for tenure-track and tenure-eligible positions must have earned a doctorate (or foreign equivalent) in Computer Science, Computer Engineering, or related field, by the date of appointment.

## Application Instructions

**To ensure full consideration of your application, please submit all materials no later than November 15, 2020.** Applications will only be accepted via Interfolio. <https://apply.interfolio.com/78278>

Please provide pdf files for the following requested materials: your letter of application, a complete curriculum vitae, statements of research and teaching interests, a diversity statement, and your three most significant publications. You are also asked to provide at least four confidential letters of recommendation.

For any administrative issues or inquiries related to the search, please contact [frc@cs.washington.edu](mailto:frc@cs.washington.edu). For technical issues, please contact Interfolio staff at 877-997-8807 or [help@interfolio.com](mailto:help@interfolio.com).

## Equal Employment Opportunity Statement

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

## Commitment to Diversity

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint (<http://www.washington.edu/diversity/diversity-blueprint/>). Additionally, the University's Faculty Code

recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profile and responsibilities (<https://www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432>).

## University of Washington

*Research Assistant Professor in the Paul G. Allen School of Computer Science & Engineering*

### Position Description

The University of Washington's Paul G. Allen School of Computer Science & Engineering invites applications for a non-tenure track Research Assistant Professor position in the fields of Molecular engineering with computation methods (e.g., ML); DNA nanotechnology; and/or Synthetic biology. The position would be a full-time, multi-year appointment with 12-month service period and with an anticipated start date of September 1, 2021. The initial appointment is for a three-year term.

Our school offers a highly collegial and collaborative culture, with broad interdisciplinary research ties across campus. We are leaders both in core computing and computer engineering research, and in research that applies computer science to solve pressing world challenges in medicine and global health, education, accessibility, developing world technology, and others. The Seattle area is particularly attractive given the presence of significant industrial research laboratories,

top technology companies, as well as a vibrant technology-driven entrepreneurial community that further enhances the intellectual atmosphere.

We look forward to learning how the applicant's experience or future plans for research and service would support our commitment to diversity and inclusion. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, underrepresented minorities, individuals with disabilities and covered veterans. The University is a first-round awardee of the National Science Foundation's ADVANCE Institutional Transformation Award to increase the advancement of women faculty in science, engineering, and math (see [www.engr.washington.edu/advance](http://www.engr.washington.edu/advance)). Moreover, College of Engineering has consistently had one of the highest percentages of women faculty in the top 50 colleges of engineering (US News and World Report Undergraduate Rankings). Additionally, the University's Office for Faculty Advancement promotes the hiring, retention, and success of a diverse and inclusive faculty at the University of Washington.

All University of Washington faculty engage in research, teaching and service.

### Qualifications

Applicants must have earned a doctorate (or foreign equivalent) in Computer Science, Computer Engineering, or related field, by the date of appointment.

## Application Instructions

**To ensure full consideration of your application, please submit all materials no later than November 15, 2020.** Applications will only be accepted via Interfolio. <https://apply.interfolio.com/78349>

Please provide pdf files for the following requested materials: your letter of application, a complete curriculum vitae, statements of research interests, a diversity statement, and your three most significant publications. You may optionally provide a teaching statement, if available. You are also asked to provide at least four confidential letters of recommendation.

For any administrative issues or inquiries related to the search, please contact [frc@cs.washington.edu](mailto:frc@cs.washington.edu). For technical issues, please contact Interfolio staff at 877-997-8807 or [help@interfolio.com](mailto:help@interfolio.com).

## Equal Employment Opportunity Statement

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

## Commitment to Diversity

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint

(<http://www.washington.edu/diversity/diversity-blueprint/>). Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profile and responsibilities (<https://www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432>).

## University of Waterloo

### Tenure-track and Tenured Faculty Positions

The David R. Cheriton School of Computer Science in the Faculty of Mathematics at the University of Waterloo invites applications for five tenure-track Assistant Professor positions, subject to budget approval, targeted as follows:

- 1) Artificial Intelligence (esp. Machine Learning, Natural Language Processing and Multi-agent Systems)
- 2) Computer Security and Privacy Enhancing Technologies
- 3) Data Systems (esp. Human Language Technologies and Data Science Platforms and Infrastructure)
- 4) Systems and Networking
- 5) All areas of Computer Science, including multi-disciplinary and cross-disciplinary research

Excellent faculty members are sought who will enhance the School's strengths. Tenured appointments at the Associate and Full Professor level are possible as circumstances

warrant. All successful applicants are expected to engage actively in graduate student supervision and teaching, to contribute to the overall development of the School, and to be, or to have demonstrated the potential to be, leaders in their research field. A PhD in Computer Science, or equivalent, is required. Rank and salary will be commensurate with experience; the salary range is \$130,000 - \$180,000 and negotiations beyond this salary range will be considered for exceptionally qualified candidates. The expected start date for these positions is July 1, 2021 though the actual start date is flexible.

The David R. Cheriton School of Computer Science is the largest Computer Science school in Canada, with 85 professorial faculty members. It enjoys an excellent reputation in pure and applied research and houses a diverse research program of international stature. Because of its recognized capabilities, the School attracts exceptionally well-qualified students at both undergraduate and graduate levels. In addition, the University of Waterloo has an enlightened intellectual property policy that vests all rights in the inventor. Please see the School's website for more information: <https://cs.uwaterloo.ca/about/open-positions>.

The University of Waterloo regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. As such, we encourage applications from women, persons with disabilities, Indigenous peoples, members of visible minorities and others who may contribute to the further diversification of ideas. At Waterloo, you will have the opportunity to work across disciplines and collaborate with an international community

of scholars and a diverse student body, situated in a rapidly growing community that has been termed a “hub of innovation.”

We encourage members of all equity-seeking groups to self-identify within their letter of intent in their application. Disclosure and/or self-identification with an equity-seeking group will not lead to advantageous treatment of a candidate who is not qualified. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will receive priority in the recruitment process.

To submit an application, please register at the submission site: <https://cs.uwaterloo.ca/faculty-recruiting>. Once registered, instructions will be provided regarding how to submit your full application. Applications will be considered as soon as possible when received, with full consideration assured for those received by November 30, 2020.

If you have any questions regarding the position, the application process, assessment process, eligibility, or a request for accommodation during the hiring process, please contact:

Prof. Charles Clarke  
David R. Cheriton School of Computer Science  
University of Waterloo  
Waterloo ON N2L 3G1  
Canada  
[cs-recruiting@uwaterloo.ca](mailto:cs-recruiting@uwaterloo.ca)

Three reasons to apply: <https://uwaterloo.ca/fauw/why>.

## Virginia Tech

### *Postdoctoral Associate Position*

Applications are invited for a postdoctoral associate position in computer simulation, robotic algorithm design, statistical modeling, and machine learning. The duties of the postdoctoral associate include method and algorithm development, simulation, and data analysis. Prospective applicants should have: (1) a Ph.D. degree in computer science, statistics, mathematics, computer engineering, or a related discipline; and (2) extensive experience in coding with C++ and MATLAB.

To be considered, please email a cover letter, a curriculum vitae, undergraduate and graduate transcripts, and a list of three references to Dr. Hongxiao Zhu ([hxzhu2010@gmail.com](mailto:hxzhu2010@gmail.com)).

## Virginia Tech

### *Collegiate Faculty - Electrical and Computer Engineering*

The Bradley Department of Electrical and Computer Engineering (ECE) at Virginia Tech seeks applications for a full-time, academic year, non-tenure-track, open rank Collegiate Faculty. Over the last seven years, the ECE department has grown in size achieving top academic rankings (the ECE department was ranked 12 globally and 9 nationally according to Shanghai Rankings). The position will be based in the Greater Washington, DC metro area and is part of the new VT Innovation Campus in Alexandria, Virginia. Applicants with expertise in the areas of Machine Learning, Quantum Engineering, 5G hardware including RF ICs, Data Science,

and Cybersecurity are of particular interest, but all technical areas will be considered. Individuals with relevant industry experience are encouraged to apply.

Apply electronically to [jobs.vt.edu](https://jobs.vt.edu) using reference number 514280.

Please refer to [www.ece.vt.edu](http://www.ece.vt.edu) for further information.

## Wake Forest University

### *Assistant Professor Of Computer Science*

The Department of Computer Science at Wake Forest University is seeking applications for a tenure-track Assistant Professor position to begin July 2021. Successful candidates should have a demonstrated potential for a strong research program in their areas of interest and a strong commitment to undergraduate and graduate education as well as student engagement. Applicants should have completed a PhD in Computer Science or a closely related field by the time of appointment.

Desired candidates will be able to develop a visible, externally funded research program within a setting that values high-quality teaching and mentorship of both undergraduate and graduate students. While open to excellent candidates in all areas of computer science, the Department is interested in raising its research profile in areas that are complementary to ongoing research in the Department and at Wake Forest broadly, including particularly the areas of security, privacy, machine learning, data science, imaging, high-performance computing, scientific computing, theory, and systems.

For detailed information about the position and application process, visit: [CS Faculty Career](#)

## West Virginia University

### Assistant/Associate Professor

**West Virginia University**, The Benjamin Statler College of Engineering and Mineral Resources (Morgantown, WV) invites applications for a tenure-track faculty position at the rank of Assistant or Associate Professor in the areas of computer engineering, computer science, and cybersecurity. The appointment shall be in the Lane Department of Computer Science and Electrical Engineering. Specialty areas of interest include but are not limited to cybersecurity, software engineering, networking, computer systems and architecture, theory of computer science, artificial intelligence, machine learning, computer vision, and biometric identification. Eligible candidates must hold an earned Doctorate degree in computer science, computer engineering, or a closely related field, at the time of appointment. A notable record of peer-reviewed publications and other scholarly activities, effective communication skills, and evidence of potential to attract competitive research funding are required for this position. Candidates for the rank of Associate Professor must have an outstanding record of research, teaching, and service.

For further information regarding this employment opportunity and how to apply, please see [www.jobs.wvu.edu](http://www.jobs.wvu.edu).

West Virginia University is an Equal

Opportunity/Affirmative Action Employer and the recipient of an NSF ADVANCE award for gender equity. The University values diversity among its faculty, staff and students, and invites applications from all qualified individuals, including minorities, females, individuals with disabilities, and veterans.

## Williams College

### Tenure Track Faculty Position

The Department of Computer Science at Williams College invites applications for a tenure-track position at the rank of assistant professor beginning July 1, 2021. In an exceptional case, a more advanced appointment may be considered. The position has a three-year initial term and is open to all areas of computer science. We are especially interested in candidates with strong backgrounds in Machine Learning, Artificial Intelligence, Natural Language Processing, or Computer Graphics, but applicants from all areas are encouraged to apply.

New faculty will join twelve current members of the department in supporting a thriving and diverse undergraduate computer science major. Candidates should have a commitment to excellence in teaching and research, and should, by September 2021, possess a Ph.D. in computer science or a closely related discipline. Successful candidates will teach a total of three courses during the academic year, along with associated labs.

The Department of Computer Science offers a congenial working environment, an excellent and diverse student body, and state-of-the-art facilities. Many opportunities exist for

collaboration across disciplines. For more information about the department, please visit <http://www.cs.williams.edu>.

Applications should include a cover letter, curriculum vitae, teaching and research statements, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher. The application materials should also address how the candidate's teaching, scholarship, mentorship and/or community service might support Williams' commitment to diversity and inclusion. Application materials must be submitted electronically through Interfolio at <http://apply.interfolio.com/78066>. Materials may be addressed to Professor Stephen Freund, Chair, Department of Computer Science.

Completed applications received by November 16 will receive full consideration, and review of applications will continue until the position is filled. Please direct all correspondence to [hire@cs.williams.edu](mailto:hire@cs.williams.edu). All offers of employment are contingent upon completion of a background check as described here <https://faculty.williams.edu/prospective-faculty/background-check-policy/>.

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (<http://www.williams.edu>). Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where

members from all backgrounds can live, learn, and thrive.

## York University

*Lassonde School of Engineering*

*Multiple Positions*

York University is known for championing new ways of thinking that drive teaching and research excellence. Through cross-discipline

programming, innovative course design, diverse experiential learning and a supportive community environment, our students receive the education they need to create big ideas that make an impact on the world. Located in Toronto, York is the third largest university in Canada, with a strong community of 53,000 students, 7,000 faculty and administrative staff, and 300,000+ alumni.

For more information, please visit our website at [yorku.ca/acadjobs](http://yorku.ca/acadjobs)

Established in 2012, the Lassonde School of Engineering, York University offers a broad range of undergraduate and graduate programs to educate multidisciplinary problem solvers, critical thinkers, and entrepreneurs who understand creativity, communications, social responsibility, and cultural diversity. Further information is available at <http://lassonde.yorku.ca>.

The Department of Electrical Engineering and Computer Science at York University

## YaleNUS College

### Open rank tenured or tenure track positions in Data Science

The College invites applications for 2 open rank tenure-track or tenured positions in Data Science. Preferred fields of specialization are Bayesian Statistics, Computational Statistics, High dimensional Data and Machine Learning. However, applicants working in other areas are welcome to apply. Applicants should have a relevant PhD and demonstrate an outstanding track record for their career stage. Research achievements should include publications in leading peer-reviewed journals or conferences commensurate with career stage as well as a demonstrated potential to secure research funding. A clear ability and passion for undergraduate education is essential. The incoming faculty member would join a committed team dedicated to the development and teaching of the Mathematical, Computational and Statistical Sciences Major (see <https://mcs.yale-nus.edu.sg/>) and Yale-NUS's flagship Common Curriculum (see <http://www.yale-nus.edu.sg/curriculum/common-curriculum>).

The appointee will be expected to begin duties in time for the 2021-2022 academic year, which begins in August 2021. Faculty receive salaries that are on par with the most prestigious liberal arts colleges in the world, a substantial start-up grant as well as a yearly travel and research allowance, and are able to access additional funding from Yale-NUS, National University of Singapore, and Singapore's Ministry of Education. Faculty are entitled to a 5-month sabbatical for every three years spent in the College. Some existing Faculty have joint appointments with relevant NUS Departments, and this can be explored for new hires on a case-by-case basis. Most faculty qualify for highly subsidized faculty housing, either on campus or a short walk away. Yale-NUS College is located in Singapore, a multicultural city of six million that is known for its high quality of life and sits at the heart of a vibrant region.

#### Application Procedure

Applications should consist of the following: a cover letter explaining why the position at Yale-NUS is of interest; a full curriculum vitae, including a complete list of publications; statements on research interests, teaching experience, and teaching philosophy, including how these might fit with the College's particular mission and curriculum; for tenure-track positions, three reference letters (to be submitted by the reference writers via <https://academicjobsonline.org/ajo/YaleNUS>) or for tenured positions, names and contact information of three academic referees; and other relevant documents. The teaching statement should indicate the applicant's commitment to education and evidence of engagement. Applications should be submitted via <https://academicjobsonline.org/ajo/YaleNUS>. Review of applications begins 1 October 2020 and continues until the positions are filled. For general enquiries, please email: [Enquiry\\_ScienceDiv@yale-nus.edu.sg](mailto:Enquiry_ScienceDiv@yale-nus.edu.sg). For academic enquiries, please email the Head of Studies (Mathematical, Computational and Statistical Sciences), Professor Maria De Iorio: [maria@yale-nus.edu.sg](mailto:maria@yale-nus.edu.sg)

#### Equal Opportunity Employer

Yale-NUS College achieves excellence through the diversity of its students, faculty, and staff and by embracing inclusivity, equity, and global engagement. We encourage applications by diverse individuals with a demonstrated commitment to continually support these values. For more information about the College, please visit <https://www.yale-nus.edu.sg>

#### Personal Data Protection Act (PDPA)

Candidates should understand that by sharing information with Yale-NUS, they authorise the College to use their personal data for the purposes of this application. The College will not use their data for other purposes and ensure that their data remains secure and confidential.

is one of the foremost academic and research departments in Canada with more than 60 faculty members, offering a range of undergraduate programs and research-intensive graduate degrees. For further information please visit <http://eecs.lassonde.yorku.ca>.

### Full-Time Tenure-Track Appointments

The following positions will commence July 1, 2021 and are subject to budgetary

approval. Salaries will be commensurate with qualifications and experience. Successful candidates must demonstrate excellence or promise of excellence in teaching and scholarly research. Successful candidates should also be suitable for prompt appointment to the Faculty of Graduate Studies, and be licensed as a Professional Engineer in Canada, or successfully seek licensure soon after appointment, where applicable. Pedagogical innovation in high priority areas

such as experiential education and technology enhanced learning is preferred.

**Electrical Engineering & Computer Science invites applications for the following positions:**

- Artificial Intelligence/Machine Learning (open rank)
- Computer Science (open rank)

## YaleNUS College

### Tenured or Tenure-track (Open-rank) Faculty Positions in Computer Science

The College invites applications for one assistant professor and one open rank, tenure-track or tenured faculty position in Computer Science. We are interested in all areas of Computer Science that include programming and systems. Applicants should have a relevant PhD and demonstrate an outstanding track record for their career stage. Research achievements should include publications in leading peer-reviewed journals or conferences commensurate with career stage as well as a demonstrated potential to secure research funding. A clear ability and passion for undergraduate education is essential. The incoming faculty member would join a committed team dedicated to the development and teaching of the Mathematics, Computation, and Statistics major (see <https://mcs.yale-nus.edu.sg>) and Yale-NUS's flagship Common Curriculum (see <http://www.yale-nus.edu.sg/curriculum/common-curriculum>).

The appointee will be expected to begin duties in time for the 2021-2022 academic year, which begins in August 2021. Faculty receive internationally competitive salaries and start-up grants as well as a yearly travel and research allowance. They are able to access additional funding from Yale-NUS, the National University of Singapore, and Singapore's Ministry of Education. Most faculty qualify for highly subsidized faculty housing. Yale-NUS College is located in Singapore, a multicultural city of six million at the heart of a vibrant region.

#### Application Procedure

Applications should consist of the following: a cover letter explaining why the position at Yale-NUS is of interest; a full curriculum vitae, including a complete list of publications; statements on research interests, teaching experience, and teaching philosophy, including how these might fit with the College's particular mission and curriculum; three reference letters (to be submitted by the reference writers via <https://academicjobsonline.org/ajo/YaleNUS>); and other relevant documents. Applications should be submitted via <https://academicjobsonline.org/ajo/YaleNUS> by Sunday 15 November 2020. For general enquiries, please email: [enquiry\\_sciencediv@yale-nus.edu.sg](mailto:enquiry_sciencediv@yale-nus.edu.sg)

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# Professional Opportunities

- Computer Science, Teaching Stream, Markham Campus (2 Positions at the Assistant level)
- Computer Security (open rank)
- Software Engineering (Assistant level)

Reviews of completed applications will begin on November 15, 2020. For full consideration, we need to have received your complete application materials by **November 30, 2020**.

York University is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, within its community. The AA Program, which applies to women, members of visible minorities (racialized groups), Aboriginal (Indigenous) people and persons with disabilities, can be found at <http://www.yorku.ca/acadjobs> or by calling the AA line at 416-736-5713. Applicants wishing to self-identify as part of York University's Affirmative Action

program can do so as part of the online application process. All qualified candidates are encouraged to apply; however, Canadian citizens, permanent residents and Indigenous peoples in Canada will be given priority. No application will be considered without a completed mandatory Work Status Declaration form which is included as part of the online application process.

For complete job descriptions and application details, visit <http://www.yorku.ca/acadjobs>