

# COMPUTING RESEARCH NEWS



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

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## CRN At-A-Glance

### CRA Conference at Snowbird 2020 Preliminary Program

A major focus of the conference will be the opportunities and responsibilities of computing research to increase the social good. Plenary sessions will feature former CRA board member Margaret Martonosi, NSF CISE AD, a discussion on CRA strategic planning, and a view into computing and Washington from Peter Harsha, CRA's Director of Government Affairs. Additional session descriptions are now available.

*See page 3 for full article.*

### 2020 Board of Directors Election Slate; Nominees By Petition Sought

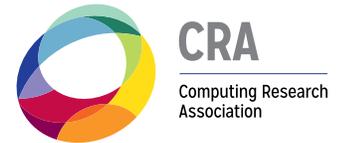
CRA is pleased to announce the 2020 Election Committee's slate of nominees for the CRA Board. CRA also encourages nominations by petition. Petition nominations must be signed by the Designated Voting Representatives of at least five Constituent Member Organizations that are current in dues payment.

*See page 2 for full article.*

## In This Issue

- 2** 2020 Election Committee's Slate of Nominees for the CRA Board of Directors
- 2** Petition Nominees Sought for CRA Board of Directors
- 3** 2020 CRA Conference at Snowbird Preliminary Agenda
- 11** Lenore Cowen and Samir Khuller Receive the 2020 CRA-E Undergraduate Research Faculty Mentoring Award
- 13** Expanding the Pipeline - The 2019 CMD-IT University Award Best Practices
- 16** One Year Later, CERP Data Still Indicate REU Participation Relates to Graduate School Enrollment
- 18** Considerations When Using Fitness Trackers in Research
- 19** Leila De Floriani Appointed to CRA Board of Directors
- 20** National Academy of Engineering Announces New Members
- 21** New Book Released on Computing at the National Science Foundation
- 22** Board Members, Staff, Column Editor
- 23** Professional Opportunities

# 2020 Election Committee's Slate of Nominees for the CRA Board of Directors



CRA is pleased to announce the 2020 Election Committee's slate of nominees for the CRA Board:

## Academic (7 openings)

Alex Aiken (Stanford University)  
Nancy Amato (University of Illinois at Urbana-Champaign)\*  
Cindy Bethel (Mississippi State University)  
Carla Brodley (Northeastern University)\*  
David Ebert (Purdue University)  
Dan Grossman (University of Washington)\*  
Mary Hall (University of Utah)\*  
Sumi Helal (University of Florida)  
Mark Hill (University of Wisconsin-Madison)\*  
Timothy Pinkston (University of Southern California)  
Hradesh Rajan (Iowa State University)  
Christian Skalka (University of Vermont)  
Vaidy Sunderam (Emory University)

## Industry (2 openings)

Kamelia Aryafar (Overstock.com)  
Kim Hazelwood (Facebook)\*  
Fatma Ozcan (IBM Research)

*\*Denotes current board members.*

## Petition Nominees Sought for CRA Board of Directors

The Computing Research Association seeks your help in suggesting nominations for its Board of Directors. We want individuals who have the time, energy and initiative to work on CRA issues on behalf of the entire CRA community. We have a working board, and all members are expected to be involved with community issues.

The CRA Elections Committee has recently announced its slate of nominees for a seat on the Board of Directors. CRA also encourages nominations by petition. Petition nominations must be signed by the Designated Voting Representatives of **at least five Constituent Member Organizations** that are current in dues payment.

A complete nomination package for petition candidates must be submitted [here](#) no later than **February 28, 2020**. Separately, each of the five supporters of the petition must send an e-mail to [elections@cra.org](mailto:elections@cra.org) simply stating their support for the petition candidate to run for a seat on the CRA Board of Directors.

Questions can be sent to [elections@cra.org](mailto:elections@cra.org).

### Important dates and events:

- On **March 6, 2020**, final ballots will be distributed to all CRA department chairs and lab directors. Each will have one vote for each open slot on the board.
- On **March 31, 2020**, completed ballots must be returned to CRA.
- In early April, the election results will be announced.

# 2020 CRA Conference at Snowbird Preliminary Agenda

## Conference theme: Tech for Good

This year's CRA Conference at Snowbird will highlight computing's potential for social good and the related responsibility for computing research to consider the risks inherent in the work we do. Topics include social impact, positive and negative externalities, risks and opportunities, and responsibility.

Track themes:

**Track 1: Computing Departments**

**Track 2: Computing Education**

**Track 3: Computing Research in Industry**

**Track 4: Tech for Good**



## CRA Conference at Snowbird 2020 Preliminary Program

### TUESDAY, JULY 21

3:00 – 5:45 pm

#### **New Chairs Workshop**

This workshop will give new CS department chairs some of the skills needed to lead their organizations and work with deans, provosts, and advisory boards – the stuff they never told you in graduate school.

Co-Chairs: Susanne Hambrusch, Purdue University, and Rachel Pottinger, University of British Columbia

6:00 – 7:00 pm

#### **Welcome Reception**

7:00 – 9:00 pm

#### **Dinner/Awards/Plenary Session**

Plenary Speaker: Ayanna Howard, Georgia Tech

### WEDNESDAY, JULY 22

8:30 am – 10:00 am

#### **CRA Strategic Planning**

Speaker: Ellen Zegura, CRA Board Chair, Georgia Tech

10:30 am – noon

#### **Parallel Tracks: Discussions of Strategic Plan**

Noon – 1:30 pm

#### **Lunch**

1:30 – 3:00 pm

#### **Parallel Tracks**

## Snowbird Preliminary Agenda *(continued)*

### **Departmental Broadening Participation in Computing Plans**

Chair: Nancy Amato, University of Illinois

The National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) is committed to broadening participation in computing (BPC). Since 2017, CISE has started asking CISE Principal Investigators to include meaningful BPC plans in proposals submitted to a subset of CISE's research programs. The plans can be individually developed by PIs or PIs could participate in departmental BPC efforts. This session will review the BPC requirement with a focus on the Departmental BPC Plan. It will be organized as a panel which will include a representative from NSF and the organizers of an NSF-sponsored Workshop on Departmental Plans for BPC which was held at University of Illinois in November 2019. It will also review useful resources such as the BPCnet.org portal which is sponsored by NSF and hosted by CRA.

### **Incorporating Ethics into Computer Science Education**

Co-Chairs: Jenn Beard, Mozilla, Kathy Pham, Mozilla, and Bobby Schnabel, University of Colorado

Speakers: Anna Lauren Hoffman, University of Washington, Seny Kamara, Brown University, Helena Mentis, University of Maryland Baltimore County, Kathy Pham, Harvard University and Bobby Schnabel, University of Colorado Boulder

In recent years, there has been a surge of attention on incorporating ethics into education in computer science and related fields. This is taking a variety of approaches, including integrating ethics topics into core technical computer science courses, and standalone ethics and computing courses that in some cases involve partnerships with other disciplines. This panel will summarize some of these recent developments, including examples from the Responsible Computer Science Challenge that is integrating ethics into undergraduate computer science courses, and experience in standalone courses at undergraduate and graduate levels. It also will discuss efforts led by an ACM task force to collect and provide materials that will aid faculty in teaching ethics in computing topics. The panel will consist of fairly brief presentations followed by considerable time for discussion with the audience

### **Computer Science Research in Industry**

Chair: Jaime Teevan, Microsoft

Speakers: Joaquin Quiñonero Candela, Facebook, Brent Hecht, Microsoft, Mounia Lalmas, Spotify, and Fernando Pereira, Google

Computation is in the process of transforming all areas of a business, from the way work gets done to the products and services that are created. As a result, companies are increasingly investing in fundamental computer science research in support of their strategic goals. This panel will look at what it means to do computer science research in an industrial setting. Panelists will describe how research is

## Snowbird Preliminary Agenda *(continued)*

conducted in their organizations, highlighting how problems are selected, how research is incentivized, and how results have internal and external impact. They will also discuss some of the key differences of doing research in an industrial setting compared with an academic setting, and share ideas for how universities might best prepare their students for a career in industrial research.

### **Earth Day at Snowbird: Computing to address grand challenges facing our changing planet**

Co-chairs: Kate Larson, University of Waterloo and Shashi Shekhar, University of Minnesota

Speakers: James Hodson, AI for Good Foundation, Lucas Joppa, Microsoft AI for Earth initiative, Microsoft Research, and Vipin Kumar, PI of the NSF/CISE Expeditions on Understanding Climate Change: A Data Driven Approach.

The Earth Day panel will bring together thought leaders in academia, industry and government to explore discuss computing opportunities to address the challenges that Earth faces today by addressing questions such as the following:

- What is the role of computer science in this interdisciplinary (or transdisciplinary) area? What are computing research success stories in addressing grand challenges facing the Earth?
- What are major computing opportunities in this area?
- How may new computing researchers get involved?
- What are key research infrastructures (e.g., datasets, cyberinfrastructure, funding)?
- Is there a need for computing research community action? If so, recommend one.

3:30 – 5:00 pm

### **Networking Activities**

Guided Hikes

Interactive Computing Ethics Workshop

Chair: Michael Skirpan, Probably Models

6:30 – 9:00 pm

Dinner

**After dinner research talks** – organized by the Computing Community Consortium

Chair: Elizabeth Bradley, University of Colorado, Boulder (incoming CCC Chair)

Speakers: Toddy Hylton, University of California, San Diego and Melanie Mitchell, Portland State University

## **THURSDAY, JULY 23**

8:30 – 10:00 am

### **Plenary Session: Margaret Martonosi, NSF CISE AD**

The fields of computer and information science and engineering are central to many of society's needs, opportunities, and challenges. Her talk will give an overview of computer and information science and engineering research, education, and research infrastructure programs at the National Science

## Snowbird Preliminary Agenda (*continued*)

Foundation, and relate them to the trends and topics that will impact their future trajectory. She will highlight particular opportunity areas where individual researchers, teams of researchers, and whole departments can engage going forward.

10:30 – Noon

### **Parallel Tracks**

#### **Development of Teaching Faculty**

Chair: Ran Libeskind-Hadas, Harvey Mudd College

Speakers: Christine Alvarado, University of California San Diego, Nancy Amato, University of Illinois, Dan Grossman, University of Washington, and Susan Rodger, Duke University

Teaching faculty play a critically important role in undergraduate CS education at large research universities. These faculty members contribute to their departments in multiple ways including - but not limited to - teaching very large introductory sequence courses and promoting pedagogical innovations that can benefit the entire department. This session addresses effective practices in recruiting, retaining, and mentoring teaching faculty. Among the questions that will be addressed are:

- What are effective models for teaching track faculty positions in terms of teaching, scholarship, and service expectations and responsibilities?
- What are effective practices in recruiting and mentoring teaching track faculty members?
- What are good practices in reviewing, renewing, and promoting teaching faculty?
- What are good practices and trends with respect to contract duration and security of employment for teaching track faculty?

#### **Security and Privacy Education**

Chair: Lorrie Cranor, Carnegie Mellon University

Speaker: Matt Bishop, University of California, Davis

Companies are reporting a growing shortage of qualified cybersecurity professionals, with hundreds of thousands of jobs going unfilled. New privacy laws around the world are also leading to rapid growth in the privacy profession, with an increased demand for privacy engineers. The demand for security and privacy professionals has prompted the creation of new degree programs at all levels. In addition, some universities are finding ways to incorporate security and privacy lessons throughout their computer science curricula. Panelists will discuss security and privacy undergraduate and graduate education, including course modules, full courses, and entire degree programs devoted to these areas.

## Snowbird Preliminary Agenda (*continued*)

### Industry-Academia Partnerships

Chair: Divesh Srivastava, AT&T

Speakers: Laura Haas, University of Massachusetts-Amherst, Chris Ramming, VMWare, Jennifer Rexford, Princeton University, Vivek Sarkar, Georgia Tech, Alfred Spector, Two Sigma, Katherine Yelick, University of California, Berkeley & Lawrence Berkeley National Laboratory, and Benjamin Zorn, Microsoft

In 2015, the CCC co-sponsored an industry round table that produced the document “The Future of Computing Research: Industry-Academic Collaborations.” Since then, several important trends in computing research have emerged as described in the CCC document “Evolving Academia/Industry Relations in Computing Research.” These trends include: (i) significant increases in the level of interaction between professors and companies in certain computing disciplines such as currently AI, which take the form of extended joint appointments, and (ii) increasingly, companies are highly motivated to engage both professors and graduate students working in specific technical areas, because companies view computing research and technical talent as a core aspect of their business success. This increasing connection between faculty, students, and companies has the potential to change (either positively or negatively) numerous things, including: (a) the academic culture in computing research universities, (b) the research topics that faculty and students pursue, (c) the ability to solve bigger problems with bigger impact than what academia can do alone, (d) the ability of universities to train undergraduate and graduate students, (e) how companies and universities cooperate, share, and interact, and (f) the potential for principles and values from academia informing products and R&D roadmaps in new ways through these unique joint arrangements. A recent survey carried out by CRA measures the degree and impact of this trend. This session brings together a diverse set of participants from industry and academia to understand these trends and help identify best practices that can be shared widely among computing research institutions.

### **From Fairness to Responsibility: Actioning and advancing the discussion around “algorithmic bias”**

Co-Chairs: Sohal Aiyani, Facebook, Miranada Bogen, Facebook, Brent Hecht, Microsoft, Ece Kamar, Microsoft, and Joaquin Quiñero Candela, Facebook

At the beginning of the last decade, the domain popularly known as “algorithmic bias” was a niche research area being advanced by a tiny group of scholars. By the end of the decade, “algorithmic bias” had become one of the most prominent domains of computing and a subject of great interest to policymakers and the general public. Anytime a field grows this quickly, it can be useful to stop and reflect on the field’s strategic directions. In this panel, we will take part in this reflection. Some of the questions we will debate include:

- Is the computing community focusing on symptoms of problems related to “algorithmic bias” rather than their causes?
- Can a repositioning of the field around responsibility rather than fairness encourage more robust solutions to the problems at the core of “algorithmic bias”?
- How can the research and engineering practices around fairness (and responsibility) match the urgency and needs emerging from AI systems entering the world in diverse ways?

## Snowbird Preliminary Agenda *(continued)*

- Are there ways in which productizing ideas in the fairness literature can lead to more harm than good, e.g. through a belief that a model's "bias can be fixed"? If so, how can we prevent this from happening?
- Rather than attempting to tweak models, is our time better spent developing new technologies and systems that directly address societal harms?

Noon – 1:30 pm

### **Lunch**

1:30 – 3:00 pm

### **Parallel Tracks**

#### **Undergraduate Research and Booming Enrollments: Who Wins?**

Chair: Lori Pollock, University of Delaware

Speakers: Christine Alvarado, University of California, San Diego, Edward Coyle, Georgia Tech, Sarah Heckman, North Carolina State University, and Diba Mirza, University of California, Santa Barbara.

While the boom in enrollment has created significant challenges to CS units, it also provides opportunity to increase the supply of talented and well-educated computing researchers.

The challenge faced by units with surging enrollments is how to scale undergraduate research opportunities to reach the increasing number of exceptionally capable and well-motivated students. The major goals for this session are: (1) increasing awareness of different approaches/programs that units have established towards scaling undergraduate research in CS and CS-related fields and (2) enabling replication of such programs with best practices.

The session will highlight successful scaling strategies with particular focus on successful research training support courses, incentive structures for faculty and students, mentoring structures, and recruitment and matching models. Panelists will discuss what activities can be done in groups for training and mentoring undergraduate researchers and models for offering those activities as well as promising approaches for faculty incentives to participate in undergraduate research.

#### **Data Science on Computer Science Education**

Chair: David Ebert, Purdue University

Speakers: Magda Balazinsak, University of Washington, and Michael Franklin, University of Chicago

In the 2016 CRA Report on [Computing Research and the Emerging Field of Data Science](#), we highlighted the fact that data science will drive fundamentally new research in computer science and that our community has the opportunity to shape the emerging field of data science. In this session, we'll discuss and explore how data science has impacted the educational programs in computer science, and consider experiences, approaches, and answers to questions including:

- Which courses should change to include data science issues?
- What new course and requirements are the most effective?

## Snowbird Preliminary Agenda *(continued)*

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- Are most departments creating a series of specialized topic courses (e.g., ICR)?
- Should we create new specializations/degrees or integrate into core programs?
- How has student interest in specialization shifted to data science or the shift just specifically to Machine Learning and AI?
- How should we manage the growing demand, and will it continue?

### **Techlash in Context: What should CS departments do?**

Chair: Vivek Sarkar, Georgia Tech

Speakers: Lorrie Cranor, Carnegie Mellon University, and Alfred Spector, Two Sigma

In past decades, CS departments and tech companies have been admired as drivers of positive change. However, there is now a growing undercurrent of negative associations with tech companies, which is also being transferred to CS departments in their interactions with industry. Several recent mainstream news articles have documented on-campus student protests criticizing various actions by tech companies, both in how their products are used and in how companies have responded to internal missteps. In some cases, these protests also target CS departments and faculty members involved in partnering with or hosting these companies. Adding fuel to fire, the current rapid growth and adoption of AI technologies threatens to further amplify this backlash. While our community has always benefited from members who have advocated for increased social responsibility in computing, a broader response is needed to address the growing techlash on campus and in society. In this interactive session, we will place techlash in context, and discuss what actions CS departments and tech companies can take to rebuild a positive image for tech in academia and industry. Much of the discussion will be driven by audience questions, so audience participation will be highly welcomed!

### **Allyship: Fostering Inclusion from academia to Industry**

Chair: Patrick Pantel, Facebook

Diverse perspectives and backgrounds are critical to the technologies we develop and to the community of experts surrounding us. A more diverse community requires us to focus on inclusion, ensuring that diverse perspectives are welcomed and supported. By building our “ally muscles”, we are able to raise our own awareness, spot exclusion, and proactively support those around us to ensure we are building an inclusive workplace from academia to industry. In this interactive session, attendees will connect with each other in small group activities to (1) build empathy and awareness among participants by surfacing real-life “ally scenarios” (e.g., interrupting the interrupter, taking credit for others’ work, tokenism); (2) brainstorm solutions for how to react in these real situations, leveraging the diverse perspectives in the room; and (3) walk away with a common language to address difficult situations in the moment rather than letting them slide.

## Snowbird Preliminary Agenda *(continued)*

3:30 – 5:00 pm

### **Making a Federal Case for Computing**

Speaker: Peter Harsha, CRA

6:30 pm Dinner

### **2020 Conference at Snowbird Organizing Committee:**

- Penny Rheingans (University of Maine) Co-Chair
- Jaime Teevan (Microsoft) Co-Chair
- James Allan (University of Massachusetts, Amherst)
- Christine Alvarado (University of California, San Diego)
- Lorrie Cranor (Carnegie Mellon University)
- Kate Larson (University of Waterloo)
- Ran Libeskind-Hadas (Harvey Mudd College)
- Patrick Pantel (Facebook)
- Divesh Srivastava (AT&T)



**CRA**  
CONFERENCE  
AT SNOWBIRD



July 21-23  
**2020**  
Snowbird, UT

# Lenore Cowen and Samir Khuller Receive the 2020 CRA-E Undergraduate Research Faculty Mentoring Award



**CRA-E**

Computing Research Association  
Education

The **Education Committee of the Computing Research Association** (CRA-E) is proud to announce two recipients of the 2020 **CRA-E Undergraduate Research Faculty Mentoring Award**: Lenore Cowen from Tufts University and Samir Khuller from Northwestern University.

These outstanding individuals are being recognized for providing exceptional mentorship, undergraduate research experiences, and, in parallel, guidance on admission and matriculation of their students to research-focused graduate programs in computing.



**Lenore Cowen**

*Tufts University*

**Lenore Cowen** is a full professor in the Department of Computer Science at Tufts University, where she leads a group of faculty and students in the study of Computational Biology. She received her Ph.D. degree in applied mathematics from MIT in 1993 and her B.A. degree in mathematics from Yale in 1987. She received multiple awards over her career including ONR Young Investigator Award, Robert S. Pond Teaching Award and a prestigious NSF Postdoctoral Fellowship among others.

Cowen is passionate about teaching students the interdisciplinary skills necessary to be successful researchers in computational biology or more generally data science. Her mentoring style is very hands on: she works hard to help students understand the entire research process from beginning to end. She challenges students by asking them true research questions. As the nomination letter mentions "students can better understand what graduate-level research will look like and make an informed decision about whether or not they will enjoy it." She has mentored 19 undergraduate students since 2002, integrating them into interdisciplinary computational science research and publishing extensively with them as co-authors. Her mentees have been recognized in the CRA Outstanding Undergraduate Researcher Awards as runner-up and honorable mention awardees, and three of her students received NSF Graduate Research Fellowships. Her students have matriculated in Ph.D. programs at MIT, Princeton, University of Washington, University of Southern California, Brown, Rice, and University of Maryland.



**Samir Khuller**

*Northwestern University*

**Samir Khuller** is currently the Barris professor and chair of Computer Science within the McCormick School of Engineering and Applied Sciences at Northwestern University. He is professor emeritus in the Department of Computer Science at the University of Maryland. He received his Ph.D. degree in computer science from Cornell in 1990, his M.S. degree in computer science from Cornell in 1989 and his B.S. degree in computer science and engineering from the Indian Institute of Technology in 1986. He received multiple awards over his career, including the Test of Time Award from European Symposium on Algorithms in 2016, Distinguished Scholar Teacher Award in 2007 and NSF CAREER among others.



## Award *(continued)*

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Khuller has been passionate about the professional and personal development of students of all levels with his mentorship of undergraduate students being particularly notable. As his nomination letter writer notes: "I can attest first-hand to the many hours he devotes to his students and to the numerous ways that he inspires, motivates, and nurtures their growth." The nomination letter also notes that Khuller "has a real knack for quickly understanding a student's particular strengths and so is able to suggest problems that, while challenging, are well suited to the student's skills." He mentored 28 undergraduate students over the last 10 years with a number of these students matriculating into many outstanding graduate programs at Stanford, MIT, UC Berkeley, Georgia Tech, University of Washington, Princeton, Duke, CalTech and University of Maryland. Also, Khuller has worked very well with students of diverse backgrounds. For example, over the last decade roughly half of the students that he has mentored are women, and two are African-American. He has an outstanding record of completing undergraduate research experiences into publications that appear at very good conferences and journals. One of his mentees has been recognized by the CRA Outstanding Undergraduate Researcher Award as the national winner, many others received honorable mentions, and several of his students received NSF Graduate Research Fellowships.

The 2020 selection committee includes Denys Poshyvanyk (chair, William & Mary), Eric Aaron (Colby College), Chandra Krintz (University of California, Santa Barbara), and Jennifer Rexford (Princeton University).



# Expanding the Pipeline: The 2019 CMD-IT University Award Best Practices



**CRA-WP**  
Computing Research Association  
Widening Participation

*By Jerri Barrett, Director of Social Media, CMD-IT*

The 2019 CMD-IT University Award for Retention of Minorities and Students with Disabilities in Computer Science was presented on September 19, 2019, at the 2019 ACM Richard Tapia Celebration of Diversity in Computing Conference in San Diego, CA. The third annual award was presented to the University of Texas at El Paso (UTEP).

The annual CMD-IT University Award recognizes US institutions that have demonstrated a commitment and shown results for increasing the computer science baccalaureate degree production of minorities and students with disabilities, through effective retention programs over the last five years. The award is focused on the following underrepresented groups: African-Americans, Native Americans, Hispanics, and people with disabilities. Introduced at the 2017 ACM Richard Tapia Celebration of Diversity in Computing Conference, the two previous award winners are Georgia Institute of Technology (2017) and the University of North Carolina at Charlotte (2018).

UTEP has the largest Mexican-American student population among U.S. institutions designated as an R1 top tier research university by the Carnegie Classification of Institutions of Higher Education. The university has an 80% Hispanic student population and a current enrollment of more than 25,000 students with more than 21,000 undergraduates in one of the world's largest bi-national metropolitan areas. Further, UTEP has one of the highest proportions of minority faculty among research universities in the U.S. with a 36% Hispanic-faculty composition. For the tenth consecutive year, Hispanic Business Magazine ranked UTEP's engineering graduate programs among the top 5. Notably, in 2017, the Brookings Institution ranked UTEP #1 for its performance in both research productivity and social mobility. This is particularly significant given that more than 60% of UTEP graduates are the first in their families to earn a bachelor's degree, 87% of the students are from the region and 51% are in the lowest income quartile.

The CMD-IT University Award decision was based on UTEP's impressive quantitative reported results, which reflected high retention and graduation rates, and qualitative reporting on



their various retention programs. The UTEP award submission highlighted the following programs as directly impacting retention; the programs were presented during the 2019 ACM Richard Tapia Celebration of Diversity in Computing Faculty Workshop.

- **The EDGE initiative**, a University-wide program led by the Provost's Office, was UTEP's ten year quality enhancement plan. The EDGE initiative involves faculty and staff in promoting student engagement and success through curricular, co-curricular, and extra-curricular high-impact practices. Ranging from undergraduate research and civic engagement to study abroad and student employment, these experiences are promoted to increase confidence, enhance personal and professional skills, and equip students with a competitive advantage when they graduate and enter the workforce or pursue a graduate degree.
- **Computing Alliance of Hispanic-Serving Institution (CAHSI)**, which is led by UTEP and is one of only eight NSF INCLUDES national alliances in the country, is a consortium of over 40 institutions with a focus on the recruitment, retention, and advancement of Hispanics in computing. CAHSI was formed



## Expanding the Pipeline *(continued)*

to address the low representation of Hispanics in computing in both higher education and the workforce through a unified effort involving administrators, faculty and professional staff, and entities from the public and private sectors. As a national INCLUDES alliance, CAHSI has adopted a collective impact framework to accelerate collaborative change through five key conditions: Common Agenda; Backbone Support; Continuous Communication; Mutually Reinforcing Activities; and Shared Measurement. CAHSI's bold, shared vision is: By 2030, Hispanics will represent 20% or more of those who earn credentials in computing. Credentials are defined as degrees and certifications that lead to gainful employment and advancement in the field.

- **Implementation of the Affinity Research Group Model (ARG).**

The ARG model, which was developed at UTEP in the late 1990's, is a set of practices built on a cooperative team framework imbued with cooperative-learning principles, which have been shown to increase student achievement and self-esteem. ARG supports the creation and maintenance of dynamic and inclusive research groups in which students learn and apply the knowledge and skills required for research and cooperative work, emphasizing the conscious and explicit development of technical, professional and team skills. In addition to its application to research groups, ARG practices have been incorporated into classrooms in which structured team-based activities are needed.

- **Peer-Led Team Learning (PLTL)** is a model of instruction for introductory STEM courses that introduces a peer-led workshop as an integral part of the course. In PLTL, a student who was previously successful in the course is recruited to lead students in weekly workshops to problem solve and discuss course content. PLTL is known for its ability to help minority students succeed. PLTL is used in the first three introductory CS courses.

- **Microsoft named El Paso a TechSpark City.** TechSpark is a national civic program aimed at fostering greater economic opportunity and job creation through partnerships with rural and smaller metropolitan communities, including digital transformation, digital skills and computer science education, career pathways, rural broadband, and support for nonprofits. The TechSpark's community engagement manager has been working with the CS department to improve computing curricula in K-12 and has become a significant partner, in addition to Google, in



impacting the UTEP CS department's NSF-funded *Revolutionizing Engineering and Computer Science Education* efforts in the areas of equity and inclusion, student professional development, and career pathways.

In addition the UTEP Computer Science Faculty has implemented the following curriculum changes to positively impact retention.

- **Offering problem-solving courses.** Google and CAHSI developed three one- and two-credit hour courses: Introduction to Problem Solving, Computational Problem Solving, and Algorithmic Problem Solving. The first two courses connect students to the major and build competencies that will help them succeed in the program. The third course reinforces students' ability to evaluate, design, and solve coding problems, which are essential skills for securing competitive jobs.
- **Establishing three concentrations.** The three concentrations are software engineering, secure software systems, and data analytics.
- **Implementing project-based learning.** Project-based learning was incorporated into the fundamental courses with culturally relevant lab courses.

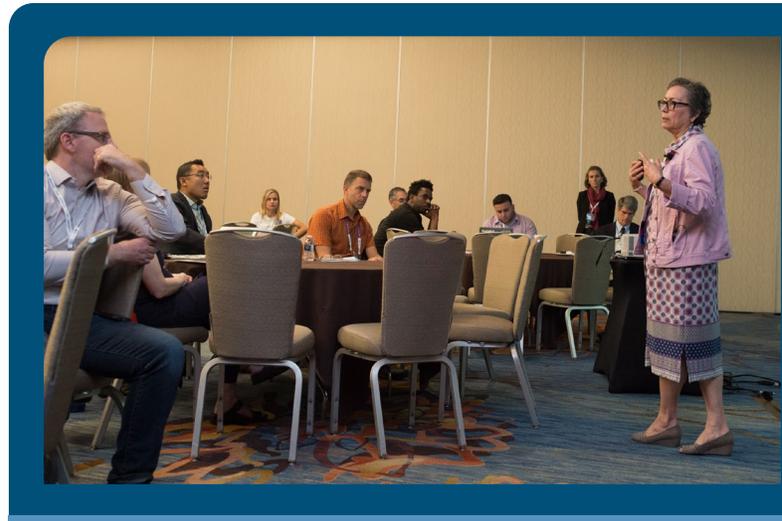


## Expanding the Pipeline *(continued)*

- **Creating courses to meet industry and student needs.** One- and two-credit hour cybersecurity courses were developed in conjunction with the Army Research Laboratory and implemented at the junior level. The department is piloting one- and two-credit hour Discrete Structures classes that allow students to concurrently learn and apply discrete structures concepts that are relevant to CS-1 and can reinforce learning.

In addition to curriculum changes, UTEP focused on creating a more supportive and inclusive departmental environment. Some of the changes included specialized teaching assistant training with an emphasis on student success and inclusion; sharing data from student surveys with faculty; launching a student electronic newsletter that includes career tips and information; providing workshops in conjunction with Google, Microsoft, and other industry partners on interview skills and résumé reviews; and scheduling events that support an inclusive environment.

“On behalf of the Computer Science Department, I would like to express our immense gratitude at being named the recipient of the CMD-IT University Award for Retention of Minorities and Students with Disabilities in Computer Science. The achievements of our department are because of UTEP’s leadership at the highest levels, which has been essential to the department’s success. Our hope is that the CS community continues to seek opportunities to share effective practices and investigate new initiatives to collectively accelerate inclusive change and ensure that the computing workforce reflects our nation’s population. We acknowledge CMD-IT for being a catalyst in this space,” said Ann Gates, Professor and Chair of the Computer Science Department at the University of Texas at El Paso.



“The University of Texas El Paso’s commitment to the retention of underrepresented minorities and people with disabilities through the implementation of innovative and effective programs is having a measurable impact,” said Valerie Taylor, CMD-IT CEO and President. “The CMD-IT University Award was created to recognize the work being done by the award recipients as well as create a forum for the discussion and dissemination of the effective practices for retention through graduation.”

Nominations for the 2020 CMD-IT University Award are now open (<http://www.cmd-it.org/programs/current/university-award/>). Completed award nomination packages are due by June 1, 2020. Award notifications will be provided by July 1st and the award will be presented at the 2020 ACM Richard Tapia Celebration of Diversity in Computing Conference in Dallas, TX on September 16-18, 2020.

### About the Author

Jerri Barrett is the Director of Social Media for the Center for Minorities and People with Disabilities in IT (CMD-IT). Prior to CMD-IT Jerri was the VP of Outreach for the SENS Research Foundation, and VP of Marketing for the Anita Borg Institute. Before that Jerri spent 20 years in high tech and telecommunications marketing for companies such as Rochester Telephone, Glenayre Technologies, Nortel Networks and HighWired. Jerri earned a bachelors degree from Mount Holyoke College and an MBA from the William E. Simon School of Business Administration.

# One Year Later, CERP Data Still Indicate REU Participation Relates to Graduate School Enrollment



**CERP**

Computing Research Association  
Evaluation

*By Heather Wright, Associate Director of CERP*

<b>Graduating undergraduates <u>with</u> formal research experience</b>	<b>Graduating undergraduates <u>without</u> formal research experience</b>
<b>31%</b> applied to graduate school	<b>15%</b> applied to graduate school
<i>Of those who applied to and enrolled in graduate school...</i>	
<b>50%</b> entered a doctoral program	<b>26%</b> entered a doctoral program
<p>Note: "Graduating" undergraduate students includes those who, at the time of the survey, were graduating during the winter of 2017, spring of 2018, or summer of 2018. Source: Data Buddies Survey (DBS), 2018, Center for Evaluating the Research Pipeline, Computing Research Association</p>	

Using Data Buddies Survey (DBS) data collected during the spring of 2018, CERP found that among graduating undergraduate students in computing who had at least one formal research experience for undergraduates (REU) were proportionately more likely to apply to graduate school than those who did not participate in a formal REU (31% versus 15%, respectively). Of those who applied to and enrolled in graduate school, formal REU students were also proportionately more likely to have entered a doctoral program than those without a formal REU experience (50% versus 26%, respectively).

These results were also found using DBS data collected from graduating undergraduates during the spring of 2017, as [previously published in Computing Research News](#). The DBS survey is designed to collect the same information from students on an annual basis, and as such, enables the possibility of replication from year-to-year. While these replicated findings do not prove a causal link between REUs and undergraduate students' graduate school enrollment, they contribute to evidence supporting that REU participation relates to students' likelihood to pursue graduate school after their undergraduate education.



## REU Participation (*continued*)

### Notes:

“Computing students” were those who indicated their major(s) included at least one of the following: computer science, computer information systems/informatics, bioinformatics, computing and business, information technology, computer engineering, game design, data science, or “other computing” with a text box option for students to specify their major if it did not fit into one of the categories listed previously. “Graduating” students were those who, at the time of the survey, were graduating with their bachelor’s degree during the winter of 2017, spring of 2018, or summer of 2018. The total sample size of graduating computing students used in this analysis was  $n = 793$ .

The survey data used for this infographic were collected using four DBS questions: (1) During your college career so far, have you participated in any formal research experiences? [Yes; No]; (2) During the 2017-2018 school year, did you apply to graduate school? [Yes, I applied to one or more master’s programs; Yes, I applied to one or more doctoral programs; Yes, I applied to both master’s and doctoral programs; No, I did not apply to any graduate programs]; (3) What will you be doing during the fall of 2019? Select all that apply. [Attending graduate school in computing; Attending graduate school in a non-computing field; Working in a computing job; Working in a non-computing job; I am not sure because I am waiting to hear about grad school or job applications; Other]; and (4) What type of degree will you be pursuing? [Master’s continuation of a joint bachelor’s/master’s; Terminal master’s; Master’s (intend a doctoral degree but my program requires the master’s first); Doctoral; Other]. Question 4 was displayed to those who indicated they were either attending graduate school in computing or attending graduate school in a non-computing field in Question 3.

To test for differences between formal REU students and no-REU students, CERP ran two separate two-proportion z-tests. Statistical significance between proportions was determined using  $p \leq .05$ .

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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](#). Volunteer for Data Buddies by signing-up [here](#).

This material is based upon work supported by the National Science Foundation under grant numbers CNS-1246649, DUE-1431112, and/or 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.

# Considerations When Using Fitness Trackers in Research



CCC

Computing Community Consortium  
Catalyst

By CCC Staff, *Katie Siek (Indiana University)*, and *Shwetak Patel (University of Washington)*

Many people around the country are in week three of their resolutions to monitoring their health with their fitness trackers. These mobile health devices are becoming more common. The **iphone tracks your steps**, maybe without you even realizing it, as does **this necklace** and **this ring**. Researchers have been talking about mobile health devices for years. The **Computing Community Consortium (CCC)** held 2016 workshop on **Discovery and Innovation in Smart and Pervasive Health** and then at AAAS 2017 CCC had a session on **“Health in Your Pocket: Diagnosing and Treating Disease with Smartphones”** and a flash talk on **“The Technology of the Future.”** Recently, the **National Institutes of Health All of Us initiative** announced they would use wearable fitness tracker data to combine with the health-related data participants provide to better understand how lifestyles can impact health.

Researchers have repeatedly shown how **getting credit** with fitness tracking is important, otherwise people may **abandon using them**. Recently, CCC council member **Katie Siek** wrote an op-ed called **“Why fitness trackers may not give you all the ‘credit’ you hoped for”** in **The Conversation** that questioned the accuracy of these fitness trackers.

“I’ve found in my health informatics research that wearable devices may not give all the credit their users deserve...”



Fitness trackers are bad at tracking people who have limited arm movement, for example when pushing a stroller or carrying an infant.

“When people keep their wrists still, as in pushing a stroller, the wrist is not changing directions. Thus, the software cannot detect changes in movement from the accelerometer sensor on a wrist tracker which is looking for changes in up-down, forward-backward and side-to-side movements.”

Siek is concerned about the quality of the lifestyle data that researchers obtain from these fitness trackers.

“If wearable fitness trackers are putting inaccurate step and sleep data into the algorithms that quantify our activities, then people will be making health-related decisions based on inaccurate data.”

In addition, for computing community researchers, Siek would strongly recommend researchers consider who is storing commodity fitness tracker wearable data. Large tech companies are providing the reliable and scalable infrastructure to share and process data – from **Microsoft storing U.S. military information** to **Amazon storing medical records**. The same is becoming increasingly true for our wearable fitness devices. In 2019, Google purchased **Fitbit** and **Misfit** wearable fitness tracker companies. The press releases note that **privacy** will be taken seriously and Fitbit’s move to Google is more to store data and integrate into **Google Fit**. If larger tech companies are simply *storing* the data, then our current understanding of who is seeing our data is correct. If, however, a company decides to change their Terms of Service agreements, that **people have difficulty understanding**, to use the data, then we need work with industry to rethink how we better convey their intentions to users.

See **the full article in The Conversation here to learn more.**

# Leila De Floriani Appointed to the CRA Board of Directors



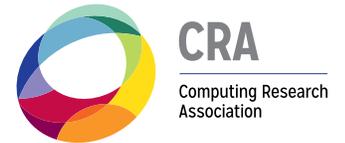
Leila De Floriani has been appointed to serve as one of the two IEEE-CS representatives on the CRA board of directors. De Floriani joins Greg Byrd and replaces David Ebert on the board. CRA would like to thank Ebert for his contributions during his term of service on the board.

Leila De Floriani is a professor at the University of Maryland, College Park. She has previously been a professor at the University of Genova (Italy), and she has also held positions at the University of Nebraska, Rensselaer Polytechnic Institute, and the Italian National Research Council. De Floriani is the *2020 President of the IEEE Computer Society*. She has been a member of the Board of Governors of the IEEE Computer Society since 2017. She is a Fellow of IEEE, a *Fellow of the International Association for Pattern Recognition* as well as a *Pioneer of the Solid Modeling Association*. She is an *IEEE Computer Society Golden Core Member* and a member of the *IEEE Honor Society IEEE-HKN*.

She has been the editor-in-chief of the *IEEE Transactions on Visualization and Computer Graphics (TVCG)* from 2015-2018, and served as an associate editor for IEEE TVCG from 2004-2008. De Floriani is currently an associate editor of *ACM Transactions on Spatial Algorithms and Systems*, *Geoinformatica*, and *Graphical Models*. She has served on the program committees of over 150 leading international conferences, including several IEEE conferences, and has contributed to many conferences in a leadership capacity.

De Floriani has authored over 300 peer-reviewed scientific publications in data visualization, geospatial data representation and processing, computer graphics, geometric modeling, shape analysis and understanding, garnering several best paper awards and invitations as a keynote speaker. Her research has been funded by numerous national and international agencies, including the European Commission and the National Science Foundation.

# National Academy of Engineering Announces New Members



Recently, the National Academy of Engineering (NAE) announced it has **elected** 87 new members and 18 international members. Among those elected were two former CRA board members: **Joel Emer** from NVIDIA and former NSF CISE AD **Jim Kurose**. Congratulations to all members of the computing community who were recognized.

**Joel Emer:** senior distinguished research scientist, NVIDIA, Westford, Mass. For quantitative analysis of computer architecture and its application to architectural innovation in commercial microprocessors.

**James Kurose:** distinguished professor, College of Information and Computer Science, University of Massachusetts, Amherst. For contributions to the design and analysis of network protocols for multimedia communication.



**Joel Emer**



**James Kurose**

“Election to the National Academy of Engineering is among the highest professional distinctions accorded to an engineer. Academy membership honors those who have made outstanding contributions to “engineering research, practice, or education, including, where appropriate, significant contributions to the engineering literature” and to “the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education.” Election of new NAE members is the culmination of a yearlong process. The ballot is set in December and the final vote for membership occurs during January.

Individuals in the newly elected class will be formally inducted during a ceremony at the NAE’s annual meeting in Washington, D.C., on Oct. 4. A list of the newly elected members and international members follows, with their primary affiliations at the time of election and a brief statement of their principal engineering accomplishments.”

A complete list and additional details can be accessed from the NAE website at: <https://www.nae.edu>.

# New Book Released on Computing at the National Science Foundation

A book which details the history of computing at NSF, *Computing and the National Science Foundation 1950-2016: Building a Foundation for Modern Computing* was recently published.

The book was authored by three former CRA Board Members W. Richards "Rick" Adrion, former CRA Executive Director Bill Aspray, and Peter Freeman, who was an original signer of CRA's articles of incorporation.

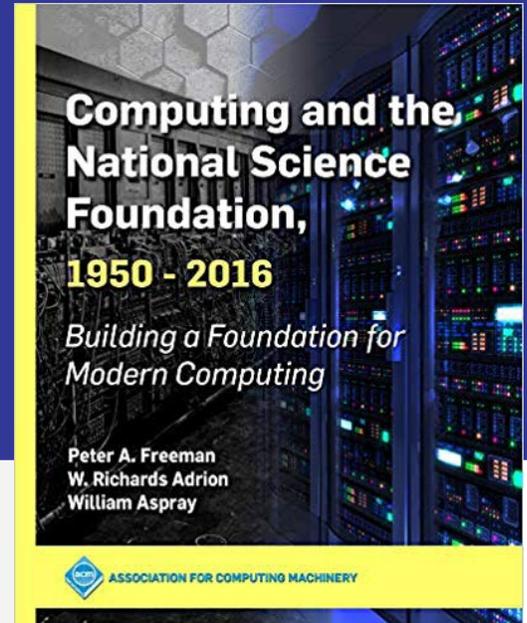
**"This organizational history relates the role of the National Science Foundation (NSF) in the development of modern computing.**

Drawing upon new and existing oral histories, extensive use of NSF documents, and the experience of two of the authors as senior managers, this book describes how NSF's programmatic activities originated and evolved to become the primary source of funding for fundamental research in computing and information technologies.

The book traces how NSF's support has provided facilities and education for computing usage by all scientific disciplines, aided in institution and professional community building, supported fundamental research in computer science and allied disciplines, and led the efforts to broaden participation in computing by all segments of society.

Today, the research and infrastructure facilitated by NSF computing programs are significant economic drivers of American society and industry. For example, NSF supported work that led to the first widely-used web browser, Netscape; sponsored the creation of algorithms at the core of the Google search engine; facilitated the growth of the public Internet; and funded research on the scientific basis for countless other applications and technologies. NSF has advanced the development of human capital and ideas for future advances in computing and its applications.

This account is the first comprehensive coverage of NSF's role in the extraordinary growth and expansion of modern computing and its use. It will appeal to historians of computing, policy makers and leaders in government and academia, and individuals interested in the history and development of computing and the NSF."



Find out more at: <https://dl.acm.org/doi/book/10.1145/3336323>

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## Column Editor

Expanding the Pipeline  
**Patty Lopez**, Intel

## Aalborg University

### *Associate and Assistant Professors in Computer Science*

The Department of Computer Science at Aalborg University is looking to appoint a number of Associate and Assistant Professors from June 1, 2020, or soon thereafter.

As Associate or Assistant Professor in Computer Science, you are expected to conduct research and teaching at an international level. Facilitating this, you will be associated with one of the department's three research groups: Database, Programming and Web technologies; Distributed, Embedded and Intelligent Systems or Human-Centered Computing.

A number of the Assistant Professor positions are offered as tenure track professorships, offering talented scientists an attractive career perspective.

For more information about the department, please visit: [cs.aau.dk](http://cs.aau.dk) and for further information contact Head of Department Jesper Kjeldskov, [jesper@cs.aau.dk](mailto:jesper@cs.aau.dk)

### **Read the full job descriptions**

Associate professor  
<https://www.stilling.aau.dk/vis-stilling/?vacancy=1081769>

Assistant Professors  
<https://www.stilling.aau.dk/vis-stilling/?vacancy=1081773>

### **Deadline**

1 February 2020

## Autodesk

### *Sr. Research Scientist*

The HCI and Visualization Group at Autodesk Research is seeking several exceptionally talented research scientists to work on cutting-edge Human-Computer Interaction research on the topic of Human Computer Interaction. These positions encompass several areas such as software learning, data visualization, AI+HCI and intelligent user interfaces, AR/VR, novel interfaces and interactions, and tools for supporting collaborative work. Please see the following postings or reach out to [hci-vis.recruiting@autodesk.com](mailto:hci-vis.recruiting@autodesk.com) with questions.

HCI: [https://autodesk.taleo.net/careersection/adsk\\_gen/jobdetail.ftl?job=19WD33057](https://autodesk.taleo.net/careersection/adsk_gen/jobdetail.ftl?job=19WD33057)

Data visualization: [https://autodesk.taleo.net/careersection/adsk\\_gen/jobdetail.ftl?job=19WD36086](https://autodesk.taleo.net/careersection/adsk_gen/jobdetail.ftl?job=19WD36086)

Augmented and virtual reality: [https://autodesk.taleo.net/careersection/adsk\\_gen/jobdetail.ftl?job=19WD36085](https://autodesk.taleo.net/careersection/adsk_gen/jobdetail.ftl?job=19WD36085)

Software learning: [https://autodesk.taleo.net/careersection/adsk\\_gen/jobdetail.ftl?job=19WD33056](https://autodesk.taleo.net/careersection/adsk_gen/jobdetail.ftl?job=19WD33056)

## Barnard College

### *Assistant Professor in Computer Science*

Barnard seeks to hire a tenure-track assistant professor in Computer Science for the academic year beginning July 1, 2020.

Barnard is a premier liberal arts undergraduate college for women in

New York City affiliated with Columbia University. There are many opportunities to collaborate with faculty in the larger research community at Barnard College and Columbia. Barnard's Computer Science (CS) Program works closely with the Vagelos Computational Science Center, with the Columbia CS Department, and with other Barnard faculty. The initial goals of the CS program are to enhance the experience of Barnard CS majors through activities that develop community, provide academic support, and connect to CS-related opportunities outside the classroom; to serve all Barnard students by expanding the use of computation and data analysis across disciplines, through both curricular offerings and other programming such as workshops or support for computational labs associated with courses in other departments; and to build visibility for Barnard CS nationally, through research, curricular and pedagogical advances in CS and its multidisciplinary applications, and new models for engaging students and enhancing diversity in computing.

Barnard faculty are expected to engage in teaching, research, curriculum and program development, undergraduate advising, and mentoring of undergraduate research. There is an opportunity to collaborate with faculty and students at both Barnard and at Columbia. The position is open to all areas of computer science as well as to multidisciplinary scholars with a significant computational focus. We encourage candidates who take a multidisciplinary approach, whether across multiple subareas of computer science or with research connections to another discipline. Candidates must have a PhD in

Computer Science or a related discipline and should have a promising research agenda and record of scholarship, as well as a demonstrated commitment to undergraduate teaching, mentoring, and/or increasing diversity in computer science.

Applications should be submitted electronically at <http://careers.barnard.edu/postings/4850> and should include a cover letter; a curriculum vitae; a research statement highlighting past experiences and future plans; a teaching, mentoring, and diversity statement describing teaching, mentoring, and diversity philosophy, experiences, and interests; contact information for three references; and up to three pre/reprints of scholarly work. For questions about the position, please contact Rebecca Wright, director of Barnard's Computer Science program, at [chair-cs@barnard.edu](mailto:chair-cs@barnard.edu). Review of applications will begin immediately and continue until the position is filled.

Barnard College is an Equal Opportunity Employer and is actively committed to creating a diverse and inclusive community. We especially encourage applications from women, people of color, persons with disabilities, LGBTQ people, and individuals from other underrepresented groups.

## Barnard College

### *Roman Family Teaching and Research Fellow in Computer Science*

Barnard seeks to hire a recent Ph.D. graduate as an endowed Roman Family

Teaching and Research Fellow in Computer Science at Barnard for the academic year beginning July 1, 2020.

Barnard is a premier liberal arts undergraduate college for women in New York City affiliated with Columbia University. There are many opportunities to collaborate with faculty in the larger research community at Barnard College and Columbia. Barnard's Computer Science (CS) Program works closely with the Vagelos Computational Science Center, with the Columbia CS Department, and with other Barnard faculty. The initial goals of the CS program are to enhance the experience of Barnard CS majors through activities that develop community, provide academic support, and connect to CS-related opportunities outside the classroom; to serve all Barnard students by expanding the use of computation and data analysis across disciplines, through both curricular offerings and other programming such as workshops or support for computational labs associated with courses in other departments; and to build visibility for Barnard CS nationally, through research, curricular and pedagogical advances in CS and its multidisciplinary applications, and new models for engaging students and enhancing diversity in computing.

The Roman Family Teaching and Research Fellow in Computer Science position is a full-time two-year position with the option of extending for a third year. Fellows will engage in teaching (two courses per year) and in research, and will be expected to participate in curriculum and program development, undergraduate advising, and

mentoring of undergraduate research. The position is open to all areas of computer science as well as to multidisciplinary scholars with a significant computational focus. We encourage candidates who take a multidisciplinary approach, whether across multiple subareas of computer science, or with another discipline. Candidates must have a PhD in Computer Science or a related discipline by the start date, and should have a promising research agenda and record of scholarship and a demonstrated commitment to undergraduate teaching, mentoring, and/or increasing diversity in computer science. Fellows will be encouraged to interact with and collaborate with faculty and students at Barnard and at Columbia.

Applications should be submitted electronically at <http://careers.barnard.edu/postings/4869> and should include a cover letter; a curriculum vitae; a research statement highlighting past experiences and future plans; a teaching, mentoring, and diversity statement describing teaching, mentoring, and diversity philosophy, experiences, and interests; contact information for three references; and up to three pre/reprints of scholarly work. For questions about the position, please contact Rebecca Wright, director of Barnard's Computer Science program, at [chair-cs@barnard.edu](mailto:chair-cs@barnard.edu). Review of applications will begin February 1, 2020 and continue until the position is filled.

Barnard College is an Equal Opportunity Employer and is actively committed to creating a diverse and inclusive community. We especially encourage

applications from women, people of color, persons with disabilities, LGBTQ people, and individuals from other underrepresented groups.

## Colby College

### *Open Rank Tenure-Track Position in Computer Science*

Colby College invites applications for an open rank tenure-track position in Computer Science, to start on September 1, 2020. 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 2020 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](https://www.colby.edu)

## Colby College

### *Visiting Assistant Professor*

Colby College invites applications for a Visiting Assistant Professor position in Computer Science, to start on September 1, 2020. 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 2020 and will continue until the position is filled.

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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](https://www.colby.edu)

## Embry-Riddle Aeronautical University

### *Tenure-Track Assistant Professor of Data Science*

The Department of Mathematics at Embry-Riddle Aeronautical University's Daytona Beach campus invites applications for tenure-track Assistant Professor in Data Science, starting Fall 2020.

The primary responsibility will be to teach and develop courses in the Masters in Data Science (MSDS) program. Duties include teaching graduate-level courses for the MSDS program including a High-Performance Computing with Big Data Analytics course and mentoring graduate students and undergraduate seniors on their research and capstone projects. Candidate must have expertise in batch and stream processing of Big Data with distributed shared memory and file systems; experiences with

Apache Spark streaming and Kafka streaming is a plus. All tenured and tenure-track faculty members in the department are expected to be active in research and scholarly production. The candidate must hold Ph.D. Degree in computer science, computational mathematics, data science or a related field (by the time of appointment) with some teaching experience.

For more information, please visit <http://careers.erau.edu>, requisition #200008.

## Fairfield University

### *Assistant Professor of Computer Science and Engineering*

Department of Computer Science and Engineering in the School of Engineering at Fairfield University in Fairfield, CT invites applications for a tenure-track assistant professor in Computer Science and Engineering. Preference will be given to candidates with expertise in the general area of Cyber and/or Network Security. However, excellent candidates from all areas of Computer Science and Engineering will be considered.

For the full position description and application instructions visit

[https://ffd.wd1.myworkdayjobs.com/en-US/EmploymentOpportunities/job/Fairfield-CT/Tenure-Track-Assistant-Professor-of-Computer-Science\\_JR0000556](https://ffd.wd1.myworkdayjobs.com/en-US/EmploymentOpportunities/job/Fairfield-CT/Tenure-Track-Assistant-Professor-of-Computer-Science_JR0000556)

## Fordham University

### *Department of Computer and Information Science- Multiple Openings Multiple Tenure Track Assistant Professor Positions Lecturer & Postdoc Positions*

The Department of Computer and Information Science at Fordham University is undergoing a rapid expansion in both its undergraduate and graduate programs, and Fordham's administration is committed to increasing the department's local and national distinction in research and science education. The department offers undergraduate programs at Fordham's Rose Hill campus in the Bronx and Lincoln Center campus in Manhattan, and offers graduate degrees in Computer Science, Data Analytics, and Cybersecurity at its Lincoln Center campus. For information about the department, visit <http://www.cis.fordham.edu>. Fordham University has been designated by National Security Agency and the Department of Homeland Security as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE).

We invite applications for multiple tenure track Assistant Professor Positions in the Department of Computer and Information Science (CIS) to start in fall 2020.

Applications from all areas of Computer Science are welcome. Candidates in the areas of cybersecurity, computer graphics, visualization, computer games, neuroscience, programming language, and systems are especially encouraged to apply.

The position requires a Ph.D. in Computer Science or related fields, a commitment to teaching excellence, good communication skills, and demonstrated research potential with the ability to attract external research funding.

Applications can be electronically submitted to Interfolio Scholar Services: Include (1) Cover letter with qualifications, (2) Curriculum vitae, (3) Research Statement, (4) Teaching Statement (5) Sample scholarship, and (6) At least three letters of recommendation. Applications will be accepted until the position(s) is filled, however, for full consideration, it is recommended to complete your application by Jan 1st, 2020.

Applications should be electronically submitted to Interfolio Scholar Services:

For Cybersecurity Assistant Professor position: <http://apply.interfolio.com/69853>

For CS General Assistant Professor position: <http://apply.interfolio.com/70481>

For Lecturer and Postdoc positions: <http://apply.interfolio.com/70482>

For inquiries, contact: Xiaolan Zhang, PhD at: [xzhang@fordham.edu](mailto:xzhang@fordham.edu), CIS Department, Fordham University, 441 East Fordham Road, Bronx, NY 10458.

Fordham is an independent, Catholic University in the Jesuit tradition committed to excellence through diversity. Fordham is an equal opportunity employer, and we especially encourage women, people of color, veterans and people with disabilities to apply.

## Hartwick College

### *Assistant Professor - Computer Science*

Hartwick College invites applications for a full-time, tenure-track appointment at the rank of Assistant Professor starting in August 2020. We seek candidates with expertise in Data Science / Informatics and general undergraduate Computer Science. Minimum qualifications include PhD in Computer Science, or related field, by the time of the appointment.

For further information, visit our website [www.hartwick.edu](http://www.hartwick.edu)

## Hartwick College

### *Assistant Professor - Data Science/Cybersecurity*

Hartwick College invites applications for a full-time, tenure-track appointment at the rank of Assistant Professor starting in August 2020. We seek candidates with expertise in Data Science / Informatics and/or Cyber-Security, with preference given to those with current research agendas that have the potential to add to the undergraduate Computer Science major. Minimum qualifications include PhD in Computer Science, or related field, by the time of the appointment.

For further information, visit our website [www.hartwick.edu](http://www.hartwick.edu)

## Harvard University

### *Lecturer/Assistant Director Undergraduate Studies for Computer Science*

The Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) seeks qualified candidates for the position of Assistant Director for Undergraduate Studies, with a concurrent Lectureship, in Computer Science.

The Assistant Director Undergraduate Studies (ADUS), Computer Science will report academically to the Area Chair for Computer Science and administratively to the Executive Dean for Education and Research. The ADUS will work closely with the Directors of Undergraduate Studies (DUS) for Computer Science, the Undergraduate Program Coordinator for Computer Science, as well as with other advisors and Directors at SEAS. We expect the ADUS to actively engage with Computer Science faculty.

#### **Responsibilities include the following:**

- Teach or co-teach one undergraduate Computer Science course per semester.
- Join and help lead the Computer Science Undergraduate Advising team with faculty and staff, which includes mentoring and advising undergraduate students and developing materials, initiatives and events to foster a welcoming and inclusive Harvard Computer Science community.

#### **Additional duties and responsibilities may include the following:**

- Assist with mentorship of relevant computer science clubs, including

Women in Computer Science (WiCS), Developers for Development, Hack Harvard, and others.

- Assist with curriculum and course development, course planning, and new pedagogical methods.
- Contribute to potential research opportunities such as supervision of undergraduate projects.
- Participate in departmental committees.

#### **Basic Qualifications:**

This position requires a Ph.D. in computer science or a related field.

#### **Additional Qualifications:**

Candidates must possess a strong commitment to education and mentoring; excellent communication, organizational, and interpersonal skills; the motivation to help build a diverse and inclusive Undergraduate Computer Science community at Harvard.

#### **Application:**

Required application documents include a cover letter, CV, a statement of research interests, and a teaching statement. In addition, we ask for a statement describing efforts to encourage diversity, inclusion and belonging, including past, current and anticipated future contributions to these areas. Candidates are also required to submit the names and contact information for at least three and up to five references.

We invite individuals with diverse backgrounds, experiences and abilities to be a part of our community.

Through teaching and collaborative research, SEAS discovers, designs and creates novel technologies and approaches to societal challenges - in service to the world, the nation, and our community. We bridge disciplines, both within and engineering and the applied sciences and beyond, to prepare broadly trained leaders, to advance foundational science, and to achieve translational impact. Our values include respect for all, serving the greater good, and welcoming individuals from diverse backgrounds and perspectives. For more information please visit [www.seas.harvard.edu](http://www.seas.harvard.edu).

Apply URL: <https://sjobs.brassring.com/TGnewUI/Search/home/HomeWithPreLoad?PageType=JobDetails&partnerid=25240&siteid=5341&jobId=1498422>

SEAS is unable to provide Visa sponsorship for this position.

## IBM Goldstine Postdoctoral Fellowship

The Mathematical Sciences department of IBM Research invites applications for its 2020–2021 Herman Goldstine Memorial Postdoctoral Fellowship for research in the mathematical and computer sciences. Areas of interest include algorithms, artificial intelligence and machine learning, numerical analysis and scientific computing, dynamical systems, inverse problems, optimization, operations research, applied probability, and statistics.

For full consideration, please apply by January 20, 2020.

More information available at <https://www.research.ibm.com/goldstine/>.



## Assistant Professors in Computer Science Indiana University, Bloomington

The School of Informatics, Computing, and Engineering (SICE) at Indiana University (IU) Bloomington invites applications for two tenure-track assistant professor positions, in *machine learning and artificial intelligence* and in *quantum information* to begin Fall 2020. Duties will include research, teaching, and service.

**Machine learning and artificial intelligence (ML/AI):** Applications are solicited in all ML/AI areas. Focuses with applications to biomedicine and genomics are especially encouraged. This position is part of the *Precision Health Initiative (PHI)*, a multi-million dollar IU investment in research that aims to transform biomedical research, health care innovations and the delivery of health interventions in Indiana.

**Quantum information:** Candidates with research interests in formal models of computation, algorithms, and information theory, preferably with connection to quantum computation, quantum simulation, or quantum information science, are encouraged to apply. This position is part of an initiative for significant growth in these areas through the IU Center for Quantum Information Science and Engineering, bringing together researchers from multiple disciplines.

Applicants should have a demonstrable potential for excellence in research and teaching and a PhD in Computer Science or a relevant field expected before 8/2020. SICE seeks candidates prepared to contribute to our commitment to diversity and inclusion in higher education. The strongest candidates can demonstrate their experience in teaching or working with diverse student populations.

Apply online before 12/1/2019 for full consideration. Review will continue until the positions are filled. Requirements and submission for ML/AI are at <https://indiana.peopleadmin.com/postings/8505> (questions to Prof. David Crandall, [djcran@indiana.edu](mailto:djcran@indiana.edu)); for Quantum at <https://indiana.peopleadmin.com/postings/8506> (questions to Prof. Amr Sabry, [sabry@indiana.edu](mailto:sabry@indiana.edu)).

SICE is the first school of its kind and among the largest in the country, with unsurpassed breadth. Its mission is to excel and lead in research, education, and outreach spanning and integrating the breadth of computing, IT and modern engineering. It includes over 140 faculty and 3,000 students. It offers PhDs in Computer Science, Informatics, Information Science, and Intelligent Systems Engineering.

Bloomington is a culturally thriving college town with a moderate cost of living and the amenities for an active lifestyle. IU is renowned for its top-ranked music school, high-performance computing and networking facilities, and performing and fine arts.

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.

## Indiana University Purdue University Indianapolis, IUPUI

Lecturer, Computer Information  
Technology

The Purdue School of Engineering and  
Technology, Indiana University–Purdue



# Professional Opportunities



## **INDIANA UNIVERSITY** **Luddy School of Informatics, Computing, and Engineering** **Chair of Computer Science**

The Luddy School of Informatics, Computing, and Engineering at Indiana University Bloomington invites applications for chair of computer science, a tenured full professor position to begin in Fall 2020. This position will be appointed as Luddy endowed faculty. The chair will enter the School at a transformative period of substantial new resources. A recent \$60 million gift to the School provides funding for significant faculty and student endowments as well as a state-of-the-art artificial intelligence facility. The Luddy School aspires to be the leading school of computing in the world.

The Luddy School seeks a dynamic individual with an international reputation and a thirst for excellence to lead the school's computing efforts. The chair will have significant ability to shape the growth of computer science in the School, including through several new tenure-track faculty lines.

Candidates from all areas of computer science are encouraged to apply. Applicants should have a world-class research record, a strategic vision for excellence in computer science research and education, and the academic and research leadership skills to advance that vision. They should also have an established record for excellence and a Ph.D. in computer science or another relevant area.

The School seeks candidates prepared to contribute to our commitment to diversity and inclusion in higher education. The strongest candidates can demonstrate their experience in working with diverse student populations. Women and minorities are encouraged to apply. Duties will include research, teaching, and service.

The Luddy School was the first of its kind and is among the largest in the country. Its mission is to excel and lead in education, research, and outreach spanning and integrating the full breadth of computing and information technology.

It includes computer science, informatics, library and information science, intelligent systems engineering, and data science, with 140 faculty, 1,100 graduate students, and 2,000 undergraduate majors. It offers Ph.D.s in computer science, informatics, information science, and intelligent systems engineering, and actively supports entrepreneurship.

Bloomington is a culturally thriving college town with a moderate cost of living and the amenities for an active lifestyle. IU is renowned for its top-ranked music school, high-performance computing and networking facilities, and performing and fine arts.

Candidates should review the application requirements and apply online at: [indiana.peopleadmin.com/postings/8907](https://indiana.peopleadmin.com/postings/8907)

For full consideration, submit your application by January 10, 2020. Applications will be accepted until the position is filled. Questions may be sent to: [luddyjob+cs-chair@indiana.edu](mailto:luddyjob+cs-chair@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.



**LUDDY**  
SCHOOL OF INFORMATICS,  
COMPUTING, AND ENGINEERING

University at Indianapolis (IUPUI) invites applications for one lecturer in the area of Information Technology. The anticipated start date is August 1, 2020 or possibly earlier.

The position will focus on teaching introductory information technology courses and coordinate the experience of first- and second-year undergraduate students. Experience with curriculum development and/or preparation of high school students for college is an advantage. We are particularly interested in applicants who have teaching experiences in web and mobile application development, programming, or cybersecurity.

The position requires teaching diverse undergraduate students, conducting scholarship of teaching and learning, and service to the Department, School, and IUPUI campus.

Qualifications include an M.S. in Information Technology, Computer Science, or a closely-related discipline from an accredited institution of higher education; proven experience in the discipline; and the ability to translate theories and concepts into practical applications.

Provide a CV, statement of teaching interests/philosophy with summary of teaching evaluations (if any), and contact information for at least three references. Applications are welcome until the position is filled.

Apply for this position at <http://indiana.peopleadmin.com/postings/8979>.



## Faculty Positions in Intelligent Systems Engineering Indiana University, Bloomington

The School of Informatics, Computing, and Engineering (SICE) at Indiana University (IU) Bloomington invites applications for two tenure track/tenured faculty positions in Intelligent Systems Engineering (ISE) to begin in Fall 2020. Positions are expected to be filled at the assistant professor level but associate or full professor level may be considered. Duties include research, teaching, and service. ISE is an innovative program that focuses on the intersection of sophisticated computing methods and information technology with critical engineering problems. Current foci include bioengineering, computer engineering, robotics and cyberphysical systems, molecular and nanoscale engineering, environmental engineering, neuro-engineering, and intelligent systems. We are particularly interested in hiring in areas of computer engineering and computer systems engineering such as intelligent systems, applied machine learning and artificial intelligence, reconfigurable computing, high performance computing, embedded systems, VLSI and cyberphysical systems.

ISE offers BS, MS, and Ph.D. degrees. New faculty will have opportunity and responsibility to shape the development of curricula. There is a strong emphasis on world-class research, built around focused laboratories and proactively involving undergraduates. More information can be found at <https://www.engineering.indiana.edu>

Applicants should have demonstrable potential for excellence in research and teaching (junior level), or an established record of excellence in both (senior level), and a PhD in Engineering or a related field expected before August 2020. SICE seeks 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.

SICE is the first school of its kind and among the largest in the country. Its mission is to excel and lead in research, education, and outreach spanning and integrating the breadth of computing, IT and modern engineering. It includes over 140 faculty and 3000 students. Bloomington is a culturally thriving college town with a moderate cost of living and the amenities for an active lifestyle.

Candidates should review application requirements and submit applications at: <https://indiana.peopleadmin.com/postings/8500>

For full consideration, applications are due by December 1, 2019, but will be considered until the positions are filled. Questions may be sent to [isechair@indiana.edu](mailto:isechair@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.

Applications are welcome until the position is filled. IUPUI is an Equal Opportunity/Affirmative Action educator and employer and affords reasonable accommodations to persons with disabilities.

## Indiana University Purdue University Indianapolis

*Assistant Professor of Computer and  
Information Technology*

The Purdue School of Engineering and  
Technology, Indiana University–Purdue

University Indianapolis (IUPUI) invites applications for one tenure-track faculty position in Computer and Information Technology with an anticipated start date of August 1, 2020, or possibly earlier. Applicants should have a strong record of research, show significant potential for establishing and sustaining an externally funded research program, and be committed to teaching both undergraduate and graduate courses.

We are particularly interested in applicants whose research focuses in the Cybersecurity area. Applicants whose research complements existing strengths in the department, including topics such as Data Science, Mobile Health, and Machine Learning and Artificial Intelligence will also be considered, as well as exceptional candidates in other areas. Candidates must have a Ph.D. in computer science, engineering, information technology, or a closely related discipline before the start date.

The Purdue School of Engineering and Technology at IUPUI has 7 academic departments with an extensive undergraduate and graduate degree portfolio, including numerous CAC, EAC, and ETAC of ABET-accredited B.S programs. The School has over 3,000 students, including approximately 500 graduate students pursuing either M.S. or Ph.D. programs. More information about the School is available at [engr.iupui.edu/](http://engr.iupui.edu/)

The IUPUI campus has approximately 30,000 students and over 200-degree programs with annual research



## Lecturer Positions in Computer Science, Informatics, and Intelligent Systems Engineering

The School of Informatics, Computing, and Engineering at Indiana University-Bloomington invites applications for multiple non-tenure track lecturer positions in three programs, **Computer Science**, **Informatics**, and **Intelligent System Engineering**, beginning in August 2020.

**Computer science:** We are particularly interested in candidates who can teach courses in one or more of the following areas: introductory programming (in Python, Java, or C/C++/C#), database concepts, data mining and analytics, introductory security, algorithm and data structure, math and logical foundations, software engineering, and game development.

**Informatics:** We are particularly interested in candidates who can teach our core courses in any of the following areas: mathematical foundations of informatics, human centered computing and human computer interaction, mobile application development, virtual and augmented reality, data science, software engineering and project management, or social and organizational informatics.

**Intelligent systems engineering:** We are particularly interested in candidates who can prepare and deliver courses in Computer Engineering and Cyber-physical Systems, potentially with applications in Nanoengineering and Bioengineering. Desirable skills include systems programming, systems design, and prototyping.

In addition to course responsibilities, lecturers will also be responsible for supervising associate instructors assigned to their classes, development of laboratory material, grading, and other duties as assigned.

After successfully completing a probationary period, lecturers will be eligible for long-term contracts and promotion to a Senior Lecturer position. Salary will be commensurate with qualifications and experience.

Candidates should possess a Master's of Science (MS) or higher degree in Informatics, Computer Science, Information Science, Engineering, or a related discipline, or equivalent tested experience such as experience and mastery in industry, and should be able to demonstrate a record of teaching excellence and enthusiasm. Applicants should preferably have two academic years' experience (may be part-time). SICE seeks candidates prepared to contribute to our commitment to diversity and inclusion in higher education. The strongest candidates can demonstrate their experience in teaching or working with diverse student populations.

Lecturers at Indiana University are valued members of the faculty and are expected to support the teaching mission of the School of Informatics, Computing, and Engineering through excellence in pedagogical practice, service to the school and academic programs, and inquiry into the advancement of pedagogy in computing.

Bloomington is a culturally thriving college town with a moderate cost of living and the amenities for an active lifestyle. IU is renowned for its top-ranked music school, high-performance computing and networking facilities, and performing and fine arts.

Apply online at:

Computer Science: <https://indiana.peopleadmin.com/postings/8691>

Informatics: <https://indiana.peopleadmin.com/postings/8692>

Intelligent Systems Engineering: <https://indiana.peopleadmin.com/postings/8693>

Consideration of applications will begin December 1, 2019. Applications will be considered until the positions are filled. Questions may be emailed to: [sicehire+lecturer-2020@indiana.edu](mailto:sicehire+lecturer-2020@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.*

expenditures totaling over \$300M. With its strong commitment to diversity and inclusion, IUPUI is one of only a few universities to be recognized with the Higher Education Excellence in Diversity (HEED) Award each year since it was established in 2012. More information about IUPUI is available at [www.iupui.edu](http://www.iupui.edu)

Applications must include a letter of interest, curriculum vitae, a summary of scholarship including teaching and research interests, and contact information for at least three references. Apply for this position at <http://indiana.peopleadmin.com/postings/8883>. Applications are welcome until the position is filled. IUPUI is an Equal Opportunity/Affirmative Action educator and employer and affords reasonable accommodations to persons with disabilities.

## Iowa State University

### *Assistant or Associate Professor of Computer Science*

The Department of Computer Science in the College of Liberal Arts and Sciences at Iowa State University seeks outstanding applicants for a faculty position at the rank of tenure-track Assistant Professor or tenured Associate Professor. The department is leading a NSF TRIPODS Phase I initiative on dependable data driven discovery (D4). The goal of this project is to advance foundational research on ensuring that data-driven discoveries are trustworthy and of high quality. The successful candidate is being

sought to directly contribute to this project. We are specifically looking for experts in artificial intelligence, AI decision theory, foundations of machine learning, algorithmic foundations for data science, and algorithmic game theory.

The successful candidate will be responsible for developing and sustaining a strong research program; developing collaborative and interdisciplinary research; publishing in top venues; supervising outstanding graduate students; teaching undergraduate and graduate courses; and enhancing ISU through professional and institutional service. We are interested in exceptional candidates that can directly contribute to the D4 initiative. Preference will be given to candidates in the areas of artificial intelligence, machine learning and data science.

**About the Department:** The Computer Science department resides in the College of Liberal Arts and Sciences, the largest college at Iowa State University. The department currently consists of thirty full-time tenured/tenure-track faculty, six term faculty, and three lecturers. We offer B.S., M.S., and Ph.D. degrees in Computer Science. We are also one of the founding departments for the B.S. in Software Engineering, B.S. in Data Science, Data Science Minor and Certificate along with the B.S. and Ph.D. degrees in Bioinformatics and Computational Biology. We are active in interdepartmental graduate programs in Bioinformatics and Computational Biology, Human-Computer Interactions,

and Information Assurance. We have many interdisciplinary research collaborations, especially with faculty in the bio-sciences, mathematical sciences, and engineering. The Computer Science department has 672 B.S. students, 42 M.S. students, and 120 Ph.D. students. Almost all Ph.D. students are supported by research or teaching assistantships. We have strong research and educational programs in Algorithms and Complexity, Artificial Intelligence, Bioinformatics and Computational Biology, Databases, Data Mining, Information Assurance, Programming Languages, Molecular Programming, Multimedia Systems, Networks, Operating Systems, Robotics, and Software Engineering. Our department has over \$16 million in active research grants. With the above interdisciplinary activities included, we contribute to active research and training grants totaling approximately \$25 million.

### **To Apply:**

[https://isu.wd1.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Assistant-or-Associate-Professor-of-Computer-Science\\_R1252](https://isu.wd1.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Assistant-or-Associate-Professor-of-Computer-Science_R1252)

## Iowa State University

### *Professor and Chair, Department of Computer Science*

### **Summary of Duties and Responsibilities:**

The College of Liberal Arts and Sciences at Iowa State University in Ames, Iowa

seeks a tenured full professor and department chair for the Department of Computer Science. Nominations and applications for a visionary leader with demonstrated computer science and/or related experience are sought. Candidates are expected to demonstrate a commitment to continued excellence in discipline-leading education of undergraduate and graduate students, interdisciplinary and international research programs, and a deep understanding of diversity and inclusion.

The successful applicant for this position is expected to:

- Provide visionary leadership for the department to serve the needs of diverse faculty, staff, students, stakeholders, and citizens to fulfill the land-grant mission of the department, college, and university
- Serve both the department and dean's office in accomplishing their missions, and be a collaborative member of the college's leadership team across all missions and 21 departments
- Stimulate and facilitate excellence and impact in all aspects of teaching, research, outreach, and service, among others, by building highly functioning and cross-disciplinary teams within the department and with key partners internal and external to the university
- Promote diversity, equity and inclusion among students, faculty and staff and across all aspects of the department's mission

- Recruit and retain talented people in all department positions, in line with the strategic plans of the department, college, and university
- Recruit and retain a diverse and inclusive student body of undergraduate and graduate students who are prepared to enter the profession
- Foster an environment in which all faculty and staff work to realize the department's purposes and are held accountable for their performance
- Assist faculty and staff to obtain resources through extramural funding by encouraging a culture of collaboration and innovation
- Encourage and foster interdisciplinary collaboration with other departments, centers, and institutes within and external to the university
- Communicate effectively the mission, vision and strengths of the department and college within Iowa State University and to external stakeholders and collaborators in the public and private sectors
- Nurture and maintain good alumni relations and build alumni support

**Required Minimum Qualifications:**

- Ph.D. or academic equivalent in any of the areas of expertise in the department, or a closely aligned field
- Demonstrated leadership abilities
- Exemplary record of achievement or appreciation for all missions of the university

- Recognition for research and scholarship commensurate with a full professor
- Must meet the university, college, and department requirements for appointment as tenured full professor

**Preferred Qualifications:**

- A vision for growth and development of the department, including the department's fit and role in interacting with other units at the university
- Evidence of commitment to fostering and promoting a climate and community of diversity and inclusion for students, faculty, and staff
- Demonstrated experience and accomplishments in areas of team-building, diversity, budget management, and administration

**Department/Program & College Description:**

The department is located in the College of Liberal Arts and Sciences which offers an outstanding learning and research community. Iowa State's most academically diverse college, LAS educates students to become global citizens, providing rigorous academic programs in the sciences, humanities and social sciences within a supportive personalized learning environment. LAS has approximately 8,000 students among 21 departments, the Greenlee School of Journalism and Communication, and more than 20 additional cross-disciplinary programs. Our faculty members teach roughly 50 percent of all undergraduate student credit hours at Iowa State University, and the college offers nearly

50 baccalaureate degrees, in addition to Ph.D. and master's degrees. Iowa State University is an equal opportunity employer. Women and members of underrepresented minorities are strongly encouraged to apply. Iowa State University is responsive to the needs of dual-career couples, offers family-friendly policies, and is the recipient of a National Science Foundation ADVANCE award for gender equity.

The Computer Science department currently consists of 31 full-time tenure-track faculty members, 9 of whom are NSF CAREER Award winners. We offer B.S., M.S., and Ph.D. degrees in Computer Science and are critical partners for a B.S. in Software Engineering and in Data Science. The combined enrollment is over 1400 undergraduates and almost 200 graduate students. We have strong research and educational programs in Algorithms and Complexity, Artificial Intelligence, Bioinformatics and Computational Biology, Data Mining, Data Science and Machine Learning, Information Security, Molecular Programming, Multimedia Systems, Operating Systems and Networks, Robotics, and Software Engineering. These research projects are supported by ~\$4.5 million annual departmental expenditures from grant and contract awards. A dynamic and collegial faculty, a strong graduate program, and a well-funded research program provide an excellent academic environment. In addition, cutting-edge research and education is facilitated by departmental participation with interdisciplinary

programs in Bioinformatics and Computational Biology and Human-Computer Interaction, the Laurence H. Baker Center for Bioinformatics and Biological Statistics, the Center for Integrative Animal Genomics, the Cyber Innovation Institute, the Information Assurance Center, the Department of Energy's Ames Laboratory, the Virtual Reality Application Center, and the Dependable Data Driven Discovery Institute.

**Department Unit/Website:**

<https://www.cs.iastate.edu>

**Proposed Start Date:** July 1, 2020

**Number of Months Employed Per Year:** 09 Month Work Period

**Time Type:** Full time

**Pay Grade:** 00 (Faculty)

**Application Instructions:**

To apply for this position, please click on "Apply" and complete the Employment Application. Please be prepared to enter or attach the following:

1. Resume/Curriculum Vitae
2. Letter of Application/Cover Letter
3. Contact Information for Three Professional References

Additional Required Applicant Materials:

4. Statement of Research Interests
5. Statement of Teaching Interests and/or Philosophy
6. Statement of Diversity and Inclusion
7. Email Contact Information for Three Referees to Provide Letters of Recommendation

Please attach documents 4-7 in the additional required documents section.

If you have questions regarding this application process, please email [employment@iastate.edu](mailto:employment@iastate.edu) or call 515-294-4800 or Toll Free: 1-877-477-7485.

**For consideration, submit application before:** February 4, 2020

**Job Requisition Number:** R1187

Please apply online at [https://isu.wdl.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Professor-and-Chair--Department-of-Computer-Science\\_R1187](https://isu.wdl.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Professor-and-Chair--Department-of-Computer-Science_R1187)

*We encourage diverse applicants to apply. Iowa State University is an equal opportunity employer committed to excellence through diversity and strongly encourages applications from all qualified applicants, including women, underrepresented populations, and veterans. ISU is responsive to the needs of dual career couples, is dedicated to work-life balance through an array of policies, and is an NSF ADVANCE institution.*

## Iowa State University Software Engineering Program

*Teaching Professor - Assistant, Associate or Full*

**Appointment Type:** Faculty

Iowa State University's Department of Electrical and Computer Engineering invites applications for an Assistant, Associate or Full Teaching Professor in the Software

Engineering Program - <https://www.se.iastate.edu/>. May be full or part-time.

To see more details and apply for this position, please click on "Apply to this job" at [https://isu.wdl.myworkdayjobs.com/IowaStateJobs/job/Ames-IA/Teaching-Professor---Assistant--Associate-or-Full\\_R242](https://isu.wdl.myworkdayjobs.com/IowaStateJobs/job/Ames-IA/Teaching-Professor---Assistant--Associate-or-Full_R242). Be prepared to include:

1. Letter of Application/Cover Letter
2. Resume/Curriculum Vitae
3. Statement of Teaching Philosophy
4. Contact Information for Three References (including phone and email)

## Iowa State University

### Assistant Teaching Professor

The Department of Computer Science at Iowa State University is accepting applications for a term faculty position at the rank of assistant teaching professor. Initial term is 3 years, beginning 1/1/2020, with the possibility for renewal. More details including application instructions are here [https://isu.wdl.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Assistant-Teaching-Professor\\_R755](https://isu.wdl.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Assistant-Teaching-Professor_R755).

## Iowa State University

### Teaching Professor - Assistant, Associate or Full

#### Summary of Duties and Responsibilities:

The Department of Electrical and Computer Engineering (ECpE) at Iowa State University

invites applications for the position of Assistant, Associate or Full Teaching Professor in the software engineering program. This position may be full or part-time.

Teaching Professors serve the program's educational mission through instruction, laboratory development, and curriculum innovation. Successful candidates will have experience that demonstrates ability, potential, and commitment to undergraduate education. This position will teach software engineering courses based on instructional need as well as the interests and expertise of the individual.

Candidates are expected to share our commitment to achieving excellence through diversity and inclusion. All faculty members are expected to interact collegially and maintain the highest standards of integrity and ethical behavior.

#### Required Minimum Qualifications:

Candidates at the Assistant Teaching Professor level should have a Bachelors degree in engineering or related discipline and 5 years of relevant work experience or a Masters degree in engineering or related discipline and 3 years of relevant work experience or a Doctoral degree in engineering or related discipline.

Candidates at the Associate Teaching Professor level should have a record of teaching experience and one of the following: Bachelors degree in engineering or related discipline and 10 years of relevant work experience or a Masters degree in engineering or related discipline and 8 years of relevant work experience

or a Doctoral degree in engineering or related discipline and 5 years of relevant work experience.

Candidates at the Teaching Professor level should have a record of teaching experience and one of the following: Bachelors degree in engineering or related discipline and 15 years of relevant work experience or Masters degree in engineering or related discipline and 13 years of relevant work experience or Doctoral degree in engineering or related discipline and 10 years of relevant work experience.

**Preferred Qualifications:** Experience in teaching classes or industry experience with topics such as software project management, software architecture, or software testing and maintenance.

Ph.D. in software engineering, computer engineering, computer science or closely related field.

#### Department/Program & College Description:

The Bachelor of Science degree in software engineering is jointly administered by the College of Engineering and the College of Liberal Arts and Sciences. The Software Engineering program provides undergraduate students with the opportunity to learn software engineering fundamentals, to study applications of state-of-the art software technologies and to prepare for the practice of software engineering. The program emphasizes industrial practice and computer fundamentals. Modern

software development practices and processes are incorporated in software engineering curriculum.

**Department Unit/Website:**

<http://www.se.iastate.edu/>

**Proposed Start Date:**

August 16, 2019

**Proposed End Date or Length of Term:**

May 15, 2022

**Number of Months Employed Per Year:**

09 Month Work Period

**Time Type:**

Part time

**Pay Grade:**

00 (Faculty)

**Application Instructions:**

To apply for this position, please click on "Apply to this job" at [https://isu.wdl.myworkdayjobs.com/IowaStateJobs/job/Ames-IA/Teaching-Professor---Assistant--Associate-or-Full\\_R242](https://isu.wdl.myworkdayjobs.com/IowaStateJobs/job/Ames-IA/Teaching-Professor---Assistant--Associate-or-Full_R242) and complete the Employment Application. Please be prepared to enter or attach the following:

1. Letter of Application/Cover Letter
2. Resume/Curriculum Vitae
3. Statement of Teaching Philosophy
4. Contact Information for Three References (including phone and email)

## Kennesaw State University

### *Director of High-Performance Computing & Associate Professor of Data Science*

Kennesaw State University is now accepting applications for a nine-month, tenure track Director of High-Performance Computing and Associate Professor of Data Science faculty position in the Department of Computer Science which begins August 2020.

Candidates must have an established and currently-funded program with clear potential for continuance as well as a proven track record of success in teaching, research, and service. Candidates will work with the HPC services within the Office of the Vice President for Research, work with KSU research faculty, graduate students, and other research computing personnel on the development and application of advanced HPC-enabled computational approaches to support a wide range of research activities. Solutions may include simulations, modeling, visual analytics, data analysis and other computation techniques for research problems in science, engineering and other disciplines in need of complex computational methods.

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. Service to the department or institution is required.

Candidates must have an earned Ph.D. in computer science, data science, or a related field or its foreign equivalent, and experience teaching courses associated with data science and computer science. Prior experience as an Assistant or Associate Professor in higher education is required.

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://facultyjobs.kennesaw.edu>.

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.

## Knox College

### Tenure track position in Computer Science

The Department of Computer Science at Knox College invites applications for a full-time, tenure-track assistant professor beginning Fall 2020. Knox is an independent, selective liberal arts institution with a strong commitment to undergraduate teaching and a mission of access. We are particularly interested in candidates who can contribute to teaching and learning for a diverse student body. Our students engage in a high level of both on-and-off-campus undergraduate research, internships, and application development with faculty.

Candidates in all areas of specialization are welcome, but we are especially interested in one or more of the following areas: Computer Science Education, AI/Machine Learning, Computer Security/Cryptography, HCI, and Graphics. Interest in leading undergraduate student/faculty research is highly desirable, as is an interest in interdisciplinary collaborations.

See [https://www.knox.edu/documents/HR/Computer\\_Sci\\_Assistant\\_Prof.pdf](https://www.knox.edu/documents/HR/Computer_Sci_Assistant_Prof.pdf) for more information and application instructions.

## Lassen Community College District

Susanville, CA 96130

Part-Time Faculty - Computer Science

Salary: \$51.23 Per Hour

In supporting the mission of Lassen Community College, a part-time instructor applicant pool has been established to provide highly qualified instructors who are experts in their subject areas, who are skilled in teaching and serving the needs of a varied student population, who can foster overall college effectiveness, and who are sensitive to and themselves represent the racial and cultural diversity of the District community.

Under the direction of the Vice President of Academic Services, part-time faculty provide instruction in the Lassen Community College educational programs. The assignments may include collegiate transfer courses and pre-collegiate basic skills courses. The positions may include day, evening, weekend and/or online teaching assignments.

Instructors will be responsible for developing curriculum and coordinating new online certificate programs related to Data Science and Data Application in the Real World as well as teaching courses.

### Apply online:

<https://lassencollege.hiretouch.com/job-details?jobID=180&job=part-time-faculty-computer-science>



## Computer Studies and Information Technology (CSIT) Instructor (2020)

For full details and to apply, go to <https://apptrkr.com/1744302>

**Type of Assignment:** Full-Time Faculty

**Position Available:** MiraCosta College's Computer Studies and Information Technology (CSIT) Department invites applications for one equity-minded, full-time (10 months per year), tenure-track faculty position beginning in August 2020. Principle responsibilities include providing instruction throughout the breadth of the department's courses and participating in a variety of departmental functions in service to student success. The person selected will share leadership roles with other full-time instructors in coordinating and developing curriculum and using culturally-responsive pedagogical techniques.

**Compensation:** Initial salary placement is based on education and experience and ranges from \$75,755 (class I, step 1) to \$126,821 (class VI-doctorate, step 10) on the 2020-2021 Annual Salary Schedule. To view the Full-Time Faculty Salary Schedule, please go to [http://www.miracosta.edu/hr/downloads/2020-2021\\_FacultySalarySchedule.pdf](http://www.miracosta.edu/hr/downloads/2020-2021_FacultySalarySchedule.pdf)

### Benefits:

MiraCosta College offers a comprehensive package of benefits, which includes employer-paid medical, dental, and vision plans for employee and dependents; \$100,000 employee life insurance; and other optional coverages. Faculty members are also covered under the California State Teachers' Retirement System (CalSTRS).

### Minimum Qualifications:

To be eligible for this position, you must meet and provide evidence of the following minimum qualifications:

1. a bachelor's degree (or higher) AND two years of professional experience (either full time or equivalent part time) directly related to the teaching assignment; OR
2. an associate degree AND six years of professional experience (either full time or equivalent part time) directly related to the teaching assignment; OR
3. the equivalent. Applicants who do not possess the EXACT degree major(s) required to meet the minimum qualifications must attach an equivalency narrative and supporting documentation at the time of application. Instructions can be found at [http://www.miracosta.edu/governance/academicenate/downloads/Equivalency\\_2019Nov26.pdf](http://www.miracosta.edu/governance/academicenate/downloads/Equivalency_2019Nov26.pdf); OR
4. a fully satisfied, lifetime California Community College credential authorizing instruction/service in the appropriate subject matter; AND
5. demonstrated sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds of community college students, faculty and staff.

**Job Close Date:** 2/4/2020

### Diversity, Equity & Inclusion:

MiraCosta College is an Equal Opportunity Employer and is committed to providing an educational environment that affirms and supports diversity in its faculty, staff, and administration, and promoting an environment of inclusion. The college's commitment to diversity, equity and inclusion is expressed in the policy found at <http://www.miracosta.edu/officeofthepresident/board/downloads/3400BP-Diversity-Equity-Inclusion-Adopted4-6-16.pdf>

The college was designated as a Hispanic Serving Institution (HSI) in 2013. This designation reflects the great responsibility that MiraCosta has to the educational attainment and economic well-being of the surrounding community. The successful candidate will join a campus that exhibits its dedication to all students and faculty through offering robust, culturally-responsive events, including speaker series dedicated to heritage month events through the Social Justice and Equity Center.

**Human Resources Contact Information:** [jobs@miracosta.edu](mailto:jobs@miracosta.edu) or 760.795.6854

### About MiraCosta College

MiraCosta College is one of California's 115 public community colleges. The district operates two campus sites and two centers, and offers a robust online education program. Situated between San Diego and Los Angeles, MiraCosta College benefits from multicultural influences and cultural opportunities. Both students and staff enjoy a friendly atmosphere and the feeling that we are all here to help one another.

MiraCosta College is an Equal Opportunity Employer with a commitment to diversity, equity, and inclusion. For more details, please visit our website at <http://www.miracosta.edu/officeofthepresident/pio/aboutmcc.html>

## NEC Laboratories America, Inc

*Researcher - Data Science*

**NEC Laboratories America, Inc.** (<http://www.nec-labs.com/>) conducts research in support of NEC's US and global business. Our lab has a broad research program that covers many areas and maintains a balance of fundamental and applied research.

The Data Science and System Security Department aims to build novel big data solutions and service platforms that simplify complex systems management, and to develop new information technology that supports innovative applications, from big data analytics to the Internet of Things. Our research is both experimental and theoretical, covering many domains in data science and artificial intelligence, such as: time series mining, graph mining, deep learning, text mining, anomaly detection, signal processing, and streaming processing. The goal of our research is to fully understand the dynamics of big data from complex systems, retrieve patterns to profile them and build innovative solutions to help end user managing those systems. We have built a number of analytic engines and system solutions to process and analyze big data and support various applications in detection, prediction and optimization. Our research leads to both award-winning NEC products and publications in top conferences.

Our group is looking for researchers to work in the areas of artificial intelligence, machine learning or data mining. The ideal candidate must have expertise in

one of the above areas, and can develop algorithms to analyze massive data and build innovative applications. He/she must have a PhD in CS/CE with a strong publication record in at least one of the following areas:

- Machine learning and AI (especially deep neural networks)
- Data mining and statistical learning
- Time series analysis and prediction
- Text mining, natural language processing and information retrieval
- Graph and information network mining
- Large scale optimization and learning
- Signal processing, image processing and computer vision

**NEC Labs** is located in Princeton, NJ, home of Princeton University and one of New Jersey's most beautiful and idyllic towns. The area offers many exciting cultural, entertainment and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. For more information about NEC Labs, please 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=2829240](https://www.appone.com/MainInfoReq.asp?R_ID=2829240).

## NEC Labs

*Researcher - Computer Security*

**NEC Laboratories America, Inc.** (<http://www.nec-labs.com/>) conducts research in support of NEC's US and global

business. Our lab has a broad research program that covers many areas and maintains a balance of fundamental and applied research.

The Data Science and System Security Department has been developing innovative security solutions and grown NEC's business. We also provide a vibrant environment that has produced very strong research results. We embrace the opportunities to leverage big-data and AI technologies to improve security. We strongly value interdisciplinary research. We have ongoing projects about software security, cloud security, IoT security and 5G network security. Our group brings together experts in security, operating systems, networking, distributed systems, and data mining. Our research leads to both award-winning NEC products/solutions and numerous publications in top conferences such as NDSS, CCS, and USENIX Security.

Our group is looking for researchers in the areas of computer security. The ideal candidate must have expertise in the design, implementation, and deployment of large scale distributed systems, networks or security platforms. He/she must hold a PhD in Computer Science or Engineering and have a strong publication or systems building record in at least one of the following areas:

- Software, IoT, embedded system, ICS, SCADA, automotive, web security, critical infrastructure security
- Software vulnerability and bug discovery and patch

- SecDevOps, container security, vulnerability detection in Docker and Kubernetes systems
- Software, kernel, and firmware fuzzing
- Static/dynamic program analysis and domain specific language design
- Binary program analysis using angr or BAP for vulnerability and bug detection
- Application of deep learning and NLP techniques to program analysis
- Web vulnerability analysis, log analysis of web applications, and network traffic analysis
- Recent hardware features such as Intel SGX, Intel PT, ARM TrustZone, Intel MPX
- Real-world hacking/pen test experiences, such as experiences with metasploit
- Attack forensics, causality/dependence analysis on forensic graph
- Blockchain, smart contract, hyperledger
- Strong system building skills

**NEC Labs** is located in Princeton, NJ, home of Princeton University and one of New Jersey's most beautiful and idyllic towns. The area offers many exciting cultural, entertainment and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. For more information about NEC Labs, please 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=2829242](https://www.appone.com/MainInfoReq.asp?R_ID=2829242).

## New Jersey Institute of Technology

### *Tenure-track Faculty Positions*

The Computer Science Department at New Jersey Institute of Technology (NJIT) invites applications for tenure-track faculty positions starting in Fall 2020. Areas of special interest are:

- Data Science, Machine Learning, and Artificial Intelligence
- Programming Languages and Software Engineering

Exceptional candidates in other areas will also be considered. While we are interested in hiring at the rank of Assistant Professor, exceptional candidates at higher ranks will also be considered. Senior candidates in the area of Data Science, Machine Learning, and Artificial Intelligence will be expected to play a leadership role as the Associate Director of the new NJIT Institute for Data Science, whose Director is Distinguished Professor David Bader.

Applicants must have a Ph.D. degree by Summer 2020 in a relevant discipline, and outstanding academic credentials that demonstrate their ability to conduct independent world-class research and attract external funding. The successful candidate is also expected to show a commitment to both undergraduate and graduate education.

NJIT is ranked 97 nationally (by US News and World Report) and designated a Carnegie RI Research University, with \$162M research expenditures in FY18.

The Computer Science Department is ranked 80 nationally (by CSRankings) and has 33 tenured/tenure track faculty, with five NSF CAREER awards and one DARPA Young Investigator award. The department conducts research to solve real-world grand challenges in computer and data science such as FinTech, Health, and Cybersecurity and plays a key role in the NJIT Institute for Data Science and the NJIT Cybersecurity Research Center. The department has strong connections with local industry and works closely with many companies through student Capstone projects, internships, co-ops and joint R&D projects. The Computer Science Department enrolls approximately 1,800 students at all levels across nine programs of study and participates alongside NJIT's Informatics Department in the Ying Wu College of Computing (YWCC). The College comprises 26% of the NJIT enrollment, educating more than 3,000 students in computing disciplines, and graduating close to 800 computing professionals every year. As such, it is the largest generator of computing talent in the tri-state (NY, NJ, CT) area.

The Computer Science Department is housed in a state-of-the-art facility renovated in 2018. The department resides within the YWCC, which is undergoing significant growth as a priority area for NJIT. This growth is an integral part of NJIT's five-year strategic plan, which calls for consolidating NJIT as a world-class institution of higher education and research. Applied research, collaboration with industry, innovation and entrepreneurship are encouraged

and supported. Performance and tenure expectations are aligned with those of the broader academic computing community, with an emphasis on grant funding and publishing in top conferences and journals.

NJIT is located in Newark's University Heights, a vibrant sprawling downtown campus close to Rutgers-Newark, New Jersey Innovation Institute, Essex Community College, New Jersey Medical School, University Hospital, and Rutgers School of Dental Medicine. NJIT is just a 30-minute train ride from New York City and its burgeoning Silicon Alley tech sector. NJIT has recently expanded its graduate Data Science programs to Jersey City, just across the Hudson River from the financial district of Lower Manhattan in New York City, where it serves the many working professionals in that region. The faculty of YWCC are expected to teach at this site as needed.

## To Apply

Applications received by December 31, 2019, will receive full consideration. However, applications are welcome until the position is filled.

Click one of the following link:

<https://njit.csod.com/ux/ats/careersite/1/requisition/1738/application?c=njit#1>

Create your application and upload your cover letter, CV, Research Statement, and Teaching Statement on that site. The CV must include at least three names along with contact information for references.

The applications will be evaluated as they are received and accepted until the positions are filled. Contact: [cs-faculty-search@njit.edu](mailto:cs-faculty-search@njit.edu)

As an EEO employer, NJIT is committed to building a diverse and inclusive teaching, research, and working environment and strongly encourages applications from individuals with disabilities, minorities, veterans, and women.

## New York University Faculty of Arts and Science

### Psychology Department

#### Clinical Assistant Professor (Non-Tenure Track)

The Department of Psychology in Arts and Science at New York University seeks applicants for a full-time, non-tenure track (i.e., "Clinical") teaching position in its undergraduate program, pending final budgetary and administrative approval. This position will start in Fall 2020. Additional information about the position can be obtained from the search committee chair Professor Wei Ji Ma at [weijima@nyu.edu](mailto:weijima@nyu.edu). Please cc [paulo.campos@nyu.edu](mailto:paulo.campos@nyu.edu) on all correspondence related to this search.

The duties of the position include: 1) teaching undergraduate psychology classes, 2) student advising and research/thesis mentoring; and, 3) academic administration.

### Qualifications

We seek candidates with expertise in one of two areas. The first is traditional

clinical psychology. Ideal candidates in this area would have extensive experience in teaching courses such as abnormal psychology, psychopathology, clinical psychology, etc. The second calls for extensive experience in quantitative methods, such as statistics, data science, computing, experimental design, psychophysics, or neuroimaging. All candidates would be expected to possess expertise and be able to offer advanced electives in at least one content area of psychology.

Because the candidate will be advising students pursuing a variety of career paths, the breadth needed to mentor those interested in a variety of psychological specializations from both theoretical and applied perspectives will be viewed favorably. A Ph.D. in Psychology, Cognitive Science, or Neuroscience from a reputable institution of higher education is required.

### Application Instructions

Applicants should arrange for a minimum of three professional letters of recommendation to be sent. Materials submitted must include evidence of teaching excellence in psychology, course evaluations, a letter of interest (including career goals, educational philosophy, experience mentoring student research, and/or professional practice areas), curriculum vitae, and research, scholarship, or professional work samples that demonstrate subject matter expertise and qualifications for the position as described. Applicants

must also submit a diversity statement that describe the ways in which your (1) scholarship, (2) teaching and mentoring, and/or (3) service and engagement demonstrate your commitment to diversity, equity, and inclusion. We are particularly interested in hearing about (1) concrete steps you have taken (or are planning to take) to foster an inclusive intellectual environment in your lab, in the classroom, in the department and on campus, and/or in your field more generally, and (2) how these steps connect with your broader views on the topics of diversity, equity, and inclusion.

To apply, see the following link (<http://apply.interfolio.com/72275>). For more information about the NYU Department of Psychology web site, <http://as.nyu.edu/psychology/careers.html>. Review of applications will begin February 1st, 2020, and will continue until the position is filled.

The Faculty of Arts and Science at NYU is at the heart of a leading research university that spans the globe. We seek scholars of the highest caliber who embody the diversity of the United States as well as the global society in which we live. We strongly encourage applications from women, racial and ethnic minorities, and other individuals who are under-represented in the profession, across color, creed, race, ethnic and national origin, physical ability, gender and sexual identity, or any other legally protected basis. NYU affirms the value of differing perspectives on the world as we strive to build the strongest possible university

with the widest reach. To learn more about the FAS commitment to diversity, equality and inclusion, please read here: <http://as.nyu.edu/departments/facultydiversity.html>.

EOE/Affirmative Action/Minorities/  
Females/Vet/Disabled/Sexual Orientation/  
Gender Identity.

## New York University

### *Clinical Faculty in Computer Science*

The Computer Science Department of the Courant Institute of Mathematical Sciences, New York University, invites applications for full-time Clinical Faculty positions. These positions are full-time non-tenured and non-tenure-track, and are typically 3 year contracts that are potentially renewable. The appointment can begin as early as September 1, 2020.

The successful applicant will teach three courses during each of the fall and spring semesters in the department's undergraduate and/or graduate program and will be expected to also participate in curricular development, program administration, and other educational activities.

Qualifications:

- For Undergraduate level teaching: MS in Computer Science or a related field.
- For Graduate level teaching: PhD in Computer Science or a related field.

Applicants must submit the following:

- A cover letter indicating how the position relates to your overall career plans.

- A complete curriculum vitae.
- Three confidential letters of recommendation are required. Please follow the prompts in the application. Once you submit your application, an automated email with a link will be generated to your recommenders asking them to upload their confidential letters of recommendation. Please submit your application via Interfolio using this link: <https://apply.interfolio.com/72974>

For full consideration, applications are due by March 1, 2020.

EOE/AA/Minorities/Females/  
Veterans/Disabled/Sexual Orientation/  
Gender Identity

## North Carolina State University

### *Professor, Data-Driven Science*

#### *Chancellor's Faculty Excellence Program*

The Chancellor's Faculty Excellence Program (CFEP) faculty cluster in Data-Driven Science at NC State University is seeking an outstanding candidate and invites all scholars conducting high-impact research and education in large-scale data-enabled science to apply. CFEP is a cluster hiring initiative designed to bring some of the best and brightest minds to join NC State's interdisciplinary efforts, and to solve some of the world's most significant problems. We invite you to learn more about the CFEP and this cluster at <https://facultyclusters.ncsu.edu>.

Although our goal is to hire at the tenured Associate or Full Professor level, the position is open rank and all exceptional candidates will be considered. Because this hire will be part of an interdisciplinary cluster-hiring program, it is expected that the successful candidate will help form a robust collaborative research, training, and education core that attracts existing faculty with strong skills in complementary areas. Faculty in the Data-Driven Science cluster have a strong methodological, modeling, computing, and/or analytic focus combined with a diverse set of interdisciplinary application areas. The candidate will be expected to assume a leadership role in the NC State Data Science Initiative, which focuses on the development of cross-college research, education, and infrastructure initiatives.

The anticipated home department is Computer Science, Mathematics, or Statistics, with potential for joint appointments between these departments or in other departments. The candidate should have an earned doctorate in Computer Science, Mathematics, Statistics, Electrical Engineering, Data Science, or other related field and at least three years of experience conducting high-impact research in a university, private sector, government or non-profit organization.

Review of applications will begin December 15 and continue until the position is filled.

To apply, please visit:  
<http://jobs.ncsu.edu/postings/125513> or

visit [jobs.ncsu.edu](http://jobs.ncsu.edu) and search for position number 00102682.

Questions, confidential inquiries, and nominations may be directed to Dr. Alyson Wilson, Professor, Department of Statistics [agwilso2@ncsu.edu](mailto:agwilso2@ncsu.edu), 919-515-1901.

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.

## North Carolina State University

### *Faculty Position - Artificial Intelligence and Machine Learning*

Seeking to extend its leadership role in AI and ML, the Department of Computer Science at North Carolina State University (NCSU) seeks to fill the Goodnight Distinguished Professor of AI/ML position, a named, endowed, full professor appointment in Artificial Intelligence and Machine Learning. Candidates with exceptional expertise in artificial intelligence, machine learning, and directly related research fields, in particular, AI in Software Engineering, AI in Learning Technologies, and AI in Cybersecurity are sought. The successful candidate will

provide leadership in the recruitment of future faculty in the areas of AI and ML. The position is supported by Dr. Jim Goodnight, founder of SAS Institute Inc., located in Cary, North Carolina.

A successful candidate is expected to have a world-class reputation in the areas of AI and ML, as well as a commensurate record in research, funding, graduate supervision, and service to the areas of AI and ML.

The Department, part of NC State's College of Engineering, is one of the largest and oldest in the country. Research expenditures, national ranking, and recognition have been growing steadily. For example, we have one of the largest concentrations of prestigious NSF Early Career Award winners (30 of our current or former faculty are recipients.) Members of the Department have also been recognized as AAAI Fellows, ACM Fellows, and IEEE Fellows.

In the area of AI and ML, the Department has numerous faculty, both within the AI group proper, and collaborating on AI and ML-related projects. Examples include knowledge representation, machine learning, text analytics, and sentiment analytics within the AI group, and related work within the Learning Technologies, Software Engineering, Security, Systems, and Theory groups. We also have strong collaborations with technology companies in the local area, including SAS Institute Inc., LexisNexis, Fidelity, Deutsche Bank Global Technology, Red Hat, and IBM, among others.

NC State is located in Raleigh, the capital of North Carolina. Raleigh forms one corner of the world-famous Research Triangle, which includes Research Triangle Park (RTP). RTP is a hub of innovation, both as a metropolitan area with a world-class industrial base, and as a center of excellence in the technology and academic arenas. The University of North Carolina at Chapel Hill and Duke University form the second and third corners of the Triangle. Raleigh and its surrounding areas are routinely recognized as one of the best places to live in the United States. We enjoy outstanding public education, affordable cost of living, and a wide variety of entertainment opportunities, all within proximity to the mountains and the coast.

Applications will be reviewed as they are received, with a first review deadline of January 1, 2020, a second review deadline of February 28, 2020, and continued on-going review past that date. The position will remain open until suitable candidates are identified. Applicants should submit the following materials online at <http://jobs.ncsu.edu> (reference position number - 00106096): 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 [group-csc-ai-ml-search@ncsu.edu](mailto:group-csc-ai-ml-search@ncsu.edu).

NC State University is an equal opportunity and affirmative action employer. We are widely recognized as a highly diverse department, having the most female tenured and tenure-track faculty of any computer science department in the country. 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 and sex offender background checks. Some vacancies also require credit or motor vehicle checks. If their highest degree is from an institution outside of the United States, final candidates are required to have their degree verified at [www.wes.org](http://www.wes.org). A Ph.D. degree must be obtained prior to the 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

### *Postdoctoral Fellowships in Computer Science*

To support this growth of our faculty, increase our research impact, and meet

growing student demand, we invite applications for Postdoctoral Fellowships in Computer Science. Combining research with teaching duties, these positions come with attractive benefits and will have considerable autonomy, while still enabling close mentoring by and collaboration with Northwestern faculty members. Strong candidates in all disciplines of computer science are encouraged to apply, including CS+X interdisciplinary focused areas.

The teaching load 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 2020 quarter. Applications received by February 28, 2020 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. Contact information for three to five letters of reference
4. A statement of research goals
5. A statement of teaching philosophy, and
6. Two representative publications

Online application can be submitted at <https://www.mccormick.northwestern.edu/computer-science/careers/>



## Assistant Professor of Engineering Electrical and Computer Engineering

The Department of Electrical and Computer Engineering (ECE) at Oakland University (OU) invites applicants for a tenure-track faculty position at the rank of Assistant Professor in Electrical and Computer Engineering starting in August 2020. We encourage applicants from various areas of electrical and/or computer engineering to apply. Teaching, research, or hands-on experience in intelligent controls and mechatronics, autonomous systems, and/or electric transportation and drives is a plus.

Applicants must have an earned Ph.D. degree in Electrical and Computer Engineering or related fields. ABD will be considered. Research and teaching with commitment to excellence is required. The successful candidate will be expected to teach and develop undergraduate and graduate courses and laboratories, initiate and integrate strong research programs, direct graduate students, and attract external research funding. Candidates must demonstrate experience with or a commitment to diversity and inclusion.

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.

OU is at the intellectual center of the Automotive Industry, adjacent to the Oakland Technology Park, and within the Oakland County Automation Alley.

OU offers an exemplary fringe benefit package. The ECE Department has 20 faculty members and offers BSE, MS, and Ph.D. programs with research and teaching.

Interested applicants should submit a cover letter with a detailed curriculum vita, a teaching statement, a research statement and unofficial transcripts at <https://apptrkr.com/1688693>.

Candidates will provide a Diversity Statement that describes 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 inequality. Contact information for references will be requested in the Professional References section of the application and a link provided through which references can submit letters.

If you have any questions, please contact Professor Darrin Hanna at [dmhanna@oakland.edu](mailto:dmhanna@oakland.edu). For full consideration applications should be submitted by January 31, 2020. Review will continue until the position is filled.

*Oakland University is an Equal Opportunity Employer and encourages applications from women and minorities.*

## Oakland University

### *Special Instructor of Computer Science and Information Technology*

The Department of Computer Science and Engineering invites applications for one special instructor position to begin August 15, 2020. We are primarily seeking a candidate who will be teaching undergraduate courses in Computer Science and Information Technology. The position also requires engagement in outreach programs and institutional and public service. Candidates must have excellent communication skills, ability to teach introductory computer science and information technology courses including programming courses, willingness to learn new teaching techniques and technologies. College teaching experience in computer science or information technology is preferred. Candidates should have an appreciation of and commitment to the value of diversity and working with a diverse faculty and student body.

Oakland University is a public institute located in southeastern Michigan with over 20,000 students. The department is currently offering BS in Computer Science, BS in Information Technology, MS in Computer Science, MS in Cyber Security, MS in Software Engineering and Information Technology, and Ph.D. in Computer Science and Informatics. For information about the department and Oakland University, please visit the respective homepages.

Applicants must have completed a PhD in Computer Science, Information Technology or closely related fields by the beginning date of employment.

Review of applications will begin on January 21, 2020 and continue until this position is filled. Expected start date is August 15, 2020. Applicants should submit a letter of intent, a statement of teaching, curriculum vitae, a statement of diversity, 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 inequality. 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. The candidate should upload their application at <http://jobs.oakland.edu/postings/17857>.

Oakland University is a public institute located in southeastern Michigan with over 20,000 students. The department is currently offering BS in Computer Science, BS in Information Technology, MS in Computer Science, MS in Cyber Security, MS in Software Engineering and Information Technology, and 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 Diversity, Equity, and Inclusion institutional values. 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

## Old Dominion University

### *Cybersecurity - Research Assistant and Associate Professors*

Old Dominion University invites applications for multiple Research Associate and Research Assistant Professor positions in the broad area of Cybersecurity with anticipated start date around July 1, 2020. This is part of a regional cluster hire of the Coastal Virginia Center for Cyber Innovation (COVA) of the Commonwealth Cyber Initiative (CCI). Candidates will be expected to:

- conduct research funded by the federal government or industry,
- provide expertise in their specific disciplinary areas of strength,
- serve as mentors to graduate research assistants working in CCI,
- interact with industry partners, funding agencies, researchers from other CCI nodes, national laboratories, and venture capitalists to identify opportunities for R&D,
- collaborate with the Commonwealth's collection of partners to include industry, government, and academia on cybersecurity issues related to the intersection of cyber physical systems security, particularly in the maritime, defense, and transportation sectors,
- provide subject matter expertise to industry partners seeking assistance with cybersecurity/AI topics and develop joint projects,

- take the lead on the development of research questions, data collection, data analysis, and writing and presenting research findings,
- conduct contract research and develop reports as needed,
- develop research proposals and budgets, and
- acquire funding to support the activities of the COVA CCI.

Continued appointment will be based on success of the program, continued funding from the Commonwealth Cyber Initiative, and the candidate's ability to attain federal and industrial funding.

**Minimum Qualifications** - At the time of appointment, the candidate must have a Ph.D. or equivalent research/ industrial experience in cybersecurity-related disciplines. Requirements are the potential for success in conducting fundamental and applied research and obtaining external research funding.

### **Preference will be given to:**

- candidates who have worked in interdisciplinary and multi-institutional environment,
- candidates who have a strong funding record,
- candidates who have strong methodological skills or research skills in their area of expertise,
- candidates who have the ability to work independently as well as demonstrated ability to work professionally and efficiently within the research group as a team player,

- candidates who possess or are eligible for a security clearance.

**Areas of interest include (but are not limited to):**

1. 5G network security
2. IoT security
3. Wireless physical layer security
4. Network slicing
5. AI security and privacy
6. Adversarial machine learning
7. Trusted AI
8. Verifiable AI
9. Embedded systems security
10. Usable security and privacy
11. Trustworthy computing
12. Cybersecurity education

**Application Review Date-** Applications should include a cover letter addressing position requirements, a curriculum vitae, statement of research interests, unofficial graduate transcripts and contact information for three professional references including email addresses and phone numbers. Review of applications will begin on **February 14, 2020**, and continue until the positions are filled. Applications should be submitted electronically to <https://jobs.odu.edu> .

*It is the policy of Old Dominion University to provide equal employment, educational and social opportunities for all persons, without regard to race, color, religion, sex (including pregnancy), national origin, gender, age, veteran status, disability, political*

*affiliation, sexual orientation or genetic information. Minorities, women, veterans and individuals with disabilities are encouraged to apply.*

## Ramapo College of New Jersey

### Assistant Professor of Computer Science

Ramapo College of New Jersey (RCNJ) seeks applicants for multiple tenure track positions in Computer Science, beginning September 2020. Successful candidates will teach a variety of computer science courses at both undergraduate and graduate levels.

Candidates will also assist in supporting RCNJ's new Data Science program (BS and MS), launching September 2020. The program is a collaboration between the Mathematics, Computer Science, and Data Science departments. You will have the opportunity to help shape these new programs.

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.

### Requirements

- PhD in Computer Science, or a closely related field completed by September 2020.
- Expertise in any of the following preferred: database systems, data science/analytics, machine learning, security, computer architecture, computer graphics. Other areas welcome.
- The candidate must have a strong background in their discipline, as evidenced by publications, presentations, professional experience, external funding record, and/or their work as a Ph.D. candidate.

### Application Instructions

Candidates must apply electronically through RCNJ's application site: <https://www.ramapojobs.com/job-details?jobID=387>

### Additional Information:

RCNJ is an Affirmative Action/Equal Employment Opportunity Employer. Additional details are found here: <https://www.ramapojobs.com/job-details?jobID=387>

## Rutgers University

### DIMACS postdoctoral associateship positions

DIMACS, the Center for Discrete Mathematics and Theoretical Computer Science, based at Rutgers University, invites applications for postdoctoral positions associated with the Center.

DIMACS will have four positions available:

**a) DIMACS - Institute for Advanced Study (IAS) Postdoc.**

This is a two-year postdoctoral associateship with the first year (2020-2021) spent at DIMACS, and the second year (2021-2022) spent at IAS in Princeton. There is a requirement to teach one course during the first year. Applicants should be recent PhDs with interest in theoretical computer science and/or discrete mathematics. Research areas include but are not limited to: computational complexity, algorithms, optimization, cryptography, combinatorics, graph theory, and discrete probability. For this postdoc, applicants must apply both to DIMACS and IAS.

**b) Economics and Computation Research area of Artificial Intelligence Postdoc,**

in collaboration with the Department of Computer Science at Rutgers University. This is a one-year position with the possibility of renewal. Topics include but are not limited to: algorithmic game theory, auctions, crowdsourcing, information elicitation, machine learning in economics, mechanism/market design, and prediction markets. Applicants should be recent PhD graduates in computer science, economics, information science, operations research, or a related field, preferably with a focus in artificial intelligence or theory.

**c) DATA-INSPIRE Postdoc.** This position is in a new transdisciplinary (TRIPODS) Institute based at DIMACS on Data Science for Intelligent Systems and People Interaction that integrates Computer

Science, Mathematics, and Statistics with a focus on data science principles and the emerging convergence of humans with machines. Applicants should be recent PhDs in computer science, math, or statistics, with a demonstrated interest in working across these disciplines.

**d) Simons A&G Postdoc.** This is a one- or two-year position, part of the Simons Collaboration on Algorithms and Geometry, which aims to address fundamental questions at the interface of mathematics and theoretical computer science. Applicants should be recent PhDs with interest in theoretical computer science and/or discrete mathematics. Research areas include but are not limited to: computational complexity, algorithms, optimization, cryptography, combinatorics, graph theory, and discrete probability.

All positions provide salary, health benefits, and an allowance for domestic travel.

Applicants should provide a cover letter specifying which postdoctoral position(s) they are applying for, a curriculum vitae, a research statement highlighting their past and planned future research, optionally a teaching statement, and the names & email addresses of three references.

DIMACS is a consortium of several universities (Rutgers, Columbia, Georgia Tech, NJIT, Princeton, RPI, and Stevens) and corporate research labs (AT&T, Avaya, IBM, Microsoft, NEC, Nokia, and Perspecta). Research and education areas at DIMACS include algorithms, combinatorics, complexity, privacy and security, discrete and computational geometry, optimization,

graph theory, data science, artificial intelligence, and machine learning, with applications in sustainability, epidemiology, genetics, networks, transportation, security, and economics. Many DIMACS activities relate to specific topics of current interest represented by the DIMACS Special Focus programs. Postdoctoral Associates at DIMACS are encouraged to collaborate with DIMACS members and visitors and to participate in all of the research and educational activities of DIMACS.

We believe that research and society benefit from a diverse workplace, and strongly encourage applications from women, minorities, individuals with disabilities, veterans, and students with non-traditional backgrounds.

For more information: <http://jobs.rutgers.edu/postings/103779>

**Rutgers University-Newark Assistant/Associate/Full Professor Computer Science Neuroscience Bridge**

The Department of Mathematics and Computer Science at Rutgers University-Newark (RU-N) invites applications for an Assistant, Associate or full Professor tenure track position in Data Science. The position will be based at RU-N, to begin September 2020. We seek applicants with exceptional research programs focusing on computational methods in machine learning, mathematical modeling of complex data sets, causal inference, science of science, or innovative

approaches to AI. We especially seek someone who will bridge with Behavioral or Neurosciences either through methods used or questions investigated.

Committed to building a cluster of faculty around interdisciplinary Computer Science, Data Science, and AI, we also are conducting complementary searches. We seek candidates who have a dynamic and interdisciplinary conception of their research, who can contribute to research and teaching in their areas, and as a core around which to build a new research center, graduate program, and undergraduate programs in interdisciplinary Computer Science, Data Science, and AI. For further details and applications, visit: <https://jobs.rutgers.edu/postings/105138>

## Rutgers University-Newark

*Assistant/Associate/Full Professor  
Computer Science Physics Bridge*

The Department of Mathematics and Computer Science at Rutgers University-Newark (RU-N) invites applications for an Assistant, Associate, or full Professor tenure-track position in Data Science. The position will be based at RU-N, to begin September 2020. We seek applicants with exceptional research programs that bridge machine learning and physics, including, but not limited, to quantum machine learning or information, network theory, or complex adaptive systems.

Committed to building a cluster of faculty around interdisciplinary Computer

Science, Data Science, and AI, we also are conducting complementary searches. We seek candidates who have a dynamic and interdisciplinary conception of their research, who can contribute to research and teaching in their areas, and as a core around which to build a new research center, graduate program, and undergraduate programs in interdisciplinary Computer Science, Data Science, and AI. For further details and applications, visit: <https://jobs.rutgers.edu/postings/105108>

## Rutgers University

*Tenure-Track Professor in  
Computer Science*

The Computer Science Department at Rutgers University invites applications for a tenure-track position. We are especially interested in hiring at the Assistant Professor level in the area of Cybersecurity, but invite applications in all areas of Computer Science at all levels. Responsibilities include research, supervision of PhD students, and teaching undergraduate and graduate level courses in Computer Science. Pursuit of external research funding is expected. The appointment will start September 1, 2020.

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

To apply for the position, go to: <http://jobs.rutgers.edu/postings/104678> and submit your CV, a research statement

addressing both past and future work, a teaching statement, and contact information for three references.

For questions, contact: [santosh.nagarakatte@cs.rutgers.edu](mailto:santosh.nagarakatte@cs.rutgers.edu)

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.

## Rutgers University

*Full-Time Tenure-Track Assistant  
Professor in Computer Science*

The Department of Computer Science at Rutgers University, Camden (<http://cs.camden.rutgers.edu>) invites applications for a full-time, tenure-track Assistant Professor position to begin September 1, 2020. We welcome applicants in all areas of specialization. We especially encourage candidates in applied areas, such as databases, distributed systems, cybersecurity, computer networks, artificial intelligence, and machine learning. The successful candidate must establish a productive research program supported by external funding and demonstrate a strong commitment to excellence in teaching. The normal teaching load is 2-2; new assistant professors may receive a one-course reduction. The candidate will be expected to teach a variety of courses, mentor

student research, and contribute broadly to the academic life of the department and the School of Arts and Sciences. Candidates must have completed all Ph.D. requirements by the start date.

The department offers Bachelor's and Master's degrees in Computer Science. The candidate will also have the opportunity to become a member in the Center for Computational and Integrative Biology (CCIB), an interdisciplinary research center for bridging experimental and computational approaches in quantitative biology. The CCIB has Doctoral and Master's programs in Computational and Integrative Biology.

Prospective candidates must submit an application that includes a cover letter, curriculum vitae, research statement, teaching statement, and names of at least three references to the Computer Science Search Committee.

Applications submitted by 15 Dec. 2019 will receive maximum consideration, but the committee will continue to accept applications until the position is filled.

Please submit all material electronically at [jobs.rutgers.edu/postings/102234](http://jobs.rutgers.edu/postings/102234).

Inquiries may be directed to Suneeta Ramaswami, Search Committee Chair, [suneeta.ramaswami@rutgers.edu](mailto:suneeta.ramaswami@rutgers.edu).

## Smith College

### *Visiting Assistant Professor in Computer Science*

The Department of Computer Science at Smith College invites applications for two, two-year, benefits-eligible positions at the rank of Visiting Assistant Professor of Computer Science, to begin July 1, 2020. The successful candidates will be prepared to teach five courses per year and must provide evidence of excellence in teaching and of an active research program. The positions are open-field. The term of appointment for each position is for two years, ending June 2022. A Ph.D. in computer science or a closely related field is expected by the time of appointment. Candidates with the ability to work with diverse student populations are especially encouraged to apply.

Details about the department may be found at <http://cs.smith.edu/>. For more information and to apply, visit <https://apply.interfolio.com/73031>.

Review of applications will begin on March 1, 2020.

EO/AA/Vet/Disability Employer.

## Stony Brook University

### *Assistant/Associate/Full Professor, Biomedical Informatics*

#### **Required Qualifications**

Ph.D. degree in Biomedical Informatics; or an M.D. degree with a fellowship or Masters in Biomedical Informatics; or a Ph.D. in

Computer Science, Computer Engineering, or a related field with research experience in biomedical informatics. To be considered at the Associate Professor/Professor level, candidates must have active funded research programs in their areas of expertise.

#### **Preferred Qualifications**

Research experience in clinical informatics and translational informatics. Strong record of interdisciplinary collaborative research with a demonstrated ability to contribute to and lead team science efforts.

#### **Responsibilities & Requirements**

Candidates are expected to maintain competitive extramurally funded research programs and to teach at both graduate and undergraduate levels.

#### **Special Notes**

This is a tenure track position. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. Internal and external search to occur simultaneously. Anticipated Start Date: As soon as possible. To qualify for an appointment as Associate Professor or Professor, the candidate must meet the School of Medicine's criteria for Appointment, Promotion and Tenure or the College of Engineering and Applied Sciences criteria on the following websites: <https://medicine.stonybrookmedicine.edu/facultysenate/committees/apt>

<http://www.stonybrook.edu/commcms/ceas/docs/Blue%20Book-Revision.pdf>

Pursuant to Executive Order 161, no State entity, as defined by the Executive Order, is permitted to ask, or mandate, in any form, that an applicant for employment provide his or her current compensation, or any prior compensation history, until such time as the applicant is extended a conditional offer of employment with compensation. If such information has been requested from you before such time, please contact the Governor's Office of Employee Relations at (518) 474-6988 or via email at [info@goer.ny.gov](mailto:info@goer.ny.gov).

Stony Brook University is 100% tobacco-free as of January 1, 2016. See our policy and learn more at [stonybrook.edu/tobaccofree](http://stonybrook.edu/tobaccofree).

The selected candidate must successfully clear a background investigation.

## Application Procedure

1. Complete the online Applicant Information Survey. Do not submit this survey to the department with your application. Any questions regarding the survey, please email [oide@stonybrook.edu](mailto:oide@stonybrook.edu).
2. Submit a State Employment Application, a curriculum vitae, statement of research, teaching philosophy, names/addresses of three or more professional references, and cover letter by clicking the red Apply button on this page. The Reference number is F-9760-19-08-F, please check the box next to "BMI (Biomedical Informatics)". Alternately, you may submit your application package to the departmental address.

Electronic submission is highly preferred.

Tahsin Kurc, Ph.D.  
Vice Chair  
Department of Biomedical Informatics  
Health Sciences Center, Level 3, Room 043  
Stony Brook University  
Stony Brook, NY 11794-8322

## Campus Description

Stony Brook University, home to many highly ranked graduate research programs, is located 60 miles from New York City on Long Island's scenic North Shore. Our 1,100-acre campus is home to 24,000 undergraduate, graduate, and doctoral students and more than 13,500 faculty and staff. SBU is a comprehensive research-intensive university and a member of the prestigious Association of American Universities (AAU), which includes 34 public universities among its 62 members. SBU consists of 12 schools and colleges and a teaching hospital that provides state-of-the-art healthcare in the Long Island region. SBU also manages and performs joint research with Brookhaven National Laboratory, the only Department of Energy Laboratory in the Northeast, and shares doctoral programs with Cold Spring Harbor Laboratory, a world renowned molecular biology institute. Home to the Emerson String Quartet, the Pollock-Krasner House in East Hampton, New York, the Humanities Institute, and the Southampton Arts Program, and with endeavors that extend to the Turkana Basin Institute in Kenya and the Ranomafana National Park in Madagascar, SBU sustains an international reputation that cuts across the arts, humanities, social sciences, and natural sciences.

Official Job Title: Assistant/Associate/  
Full Professor

REF#: F-9760-19-08-F

Campus: Health Sciences Center

Department: Biomedical Informatics

Salary: Commensurate with Experience

Posting Start Date: 09/10/2019

Posting End Date: 02/10/2020

Applications for this position must be received, as specified in the Application Procedure Section, no later than 5:00 PM Eastern Time on 02/10/2020, unless specifically noted otherwise in the Special Notes Section.

STONY BROOK UNIVERSITY/RESEARCH IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER. WE ENCOURAGE ALL TO APPLY INCLUDING INDIVIDUALS WITH DISABILITIES AND PROTECTED VETERANS. IF YOU NEED A DISABILITY-RELATED ACCOMMODATION, PLEASE CALL THE UNIVERSITY HUMAN RESOURCE SERVICES DEPARTMENT AT (631) 632-6161 OR THE UNIVERSITY HOSPITAL HUMAN RESOURCES DEPARTMENT AT (631) 444-4700. IN ACCORDANCE WITH THE TITLE II CRIME AWARENESS AND SECURITY ACT, A COPY OF OUR CRIME STATISTICS IS AVAILABLE UPON REQUEST BY CALLING (631) 632-6350. IT CAN ALSO BE VIEWED ONLINE AT THE UNIVERSITY POLICE WEBSITE AT <http://www.stonybrook.edu/police>

Job Category: Health Science and Medical  
Center Faculty

Posting Date: 09/10/2019

For a full position description or application procedures, visit: [www.stonybrook.edu/jobs](http://www.stonybrook.edu/jobs)

(Ref. # F-9760-19-08-F)

## Texas A&M University

### Multiple Faculty Positions

Texas A&M University invites applications for two full-time tenure-track positions with a 9-month academic appointment beginning fall 2020. Applicants will be considered for the faculty titles of assistant, associate, and full professor levels depending on qualifications. Candidates are being sought in the areas of theory, systems, software, human-centered computing, data science, artificial intelligence, robotics, and computer science education. Exceptional candidates in other areas are also encouraged to apply.

The successful applicants will be required to teach; advise and mentor graduate students; develop an independent, externally funded research program; participate in all aspects of the department's activities, and serve the profession.

Computer Science and Engineering at Texas A&M is currently one of 14 departments in the College of Engineering. Many of the 47 tenured/tenure-track faculty and 15 teaching-focused faculty hold a number of national distinctions, including ACM, IEEE, AAAS, and SIAM Fellows, and ACM Distinguished Scientists and Engineers.

The department has a strong and vibrant research program with half the faculty having received NSF CAREER/NYI/PYI awards. Our student population is comprised of over 1,200 undergraduate students (sophomore to senior level) and nearly 400 graduate students. More information about CSE is available at <http://www.cse.tamu.edu>.

Applicants must have earned a doctorate in computer science, computer engineering or a closely related field. Applicants should submit a cover letter, curriculum vitae, teaching statement, research statement, and a list of three references (including email addresses) by applying for this specific position at [apply.interfolio.com/68434](http://apply.interfolio.com/68434). The review process will begin immediately. Priority consideration will be given to applications received by January 4, 2020. Applications received after that date may be considered until positions are filled. It is anticipated the appointment will begin fall 2020.

Texas A&M University is committed to enriching the learning and working environment for all visitors, students, faculty, and staff by promoting a culture that embraces inclusion, diversity, equity, and accountability. Diverse perspectives, talents, and identities are vital to accomplishing our mission and living our core values.

Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

## Texas A&M University

### Full Professor

The Department of Computer Science and Engineering (CSE), College of Engineering at Texas A&M University invites applications for a full-time tenured position with a 9-month academic appointment with the possibility of an additional summer appointment, contingent upon need and availability of funds, beginning fall 2020. Applicants will be considered for the faculty title of professor depending on qualifications and may hold the title of College of Engineering Endowed Chair in Computer Science. Exceptional candidates in all areas of computer science or computer engineering are encouraged to apply.

An internationally recognized scholar is being sought who has the vision, enthusiasm, motivation, and capability to build and guide a flourishing research group. Candidates have synergistic interests with existing areas of research strengths, and those who will broaden and expand our current programs will generate the most interest. Applications from candidates with highly innovative research agendas, and/or who cross-traditional disciplinary boundaries are encouraged to apply. The department, with the strong backing of the college and university, is committed to providing the resources needed to enable the endowed chair to quickly establish a vibrant, internationally recognized research presence at Texas A&M. The successful applicant will be required to

teach; advise and mentor students at the undergraduate and graduate levels; develop an independent, externally funded research program; serve the profession; and participate in all aspects of the department's activities, with significant contributions to the excellence of our main initiatives.

Computer Science and Engineering at Texas A&M is currently one of 14 departments in the College of Engineering. Many of the 47 tenured/tenure-track faculty and 15 teaching-focused faculty hold a number of national distinctions, including ACM, IEEE, AAAS, and SIAM Fellows, and ACM Distinguished Scientists and Engineers. The department has a strong and vibrant research program with half the faculty having received NSF CAREER/NYI/PVI awards. Our student population is comprised of over 1,200 undergraduate students (sophomore to senior level) and nearly 400 graduate students. More information about CSE is available at <http://www.cse.tamu.edu>.

Applicants must have earned a doctorate in computer science, computer engineering or a closely related field.

Applicants should submit a cover letter, curriculum vitae, teaching statement, research statement, and a list of three references (including email addresses) by applying for this specific position at [www.tamengineeringcareers.org](http://www.tamengineeringcareers.org). The review process will begin immediately. Priority consideration will be given to applications received by January 4, 2020. Applications received

after that date may be considered until positions are filled. It is anticipated the appointment will begin fall 2020.

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## Texas A&M University

### *Open Rank Faculty Position: Department of Visualization/Department of Computer Science and Engineering*

The Department of Visualization in the College of Architecture and the Department of Computer Science and Engineering in the College of Engineering at Texas A&M University invite applications for a faculty position at the Associate Professor or Professor level with research and teaching interests aligned with computer graphics and visualization. The expected start date is Fall 2020 with tenure review upon hire. This is a nine-month, full-time, academic appointment with a majority appointment in the Department of Visualization and minority appointment in the Department of Computer Science and Engineering. Candidates should have relevant experience in data visualization, computer

graphics, modeling and simulation, and/or human-computer interaction.

The successful applicants will teach courses at the undergraduate and graduate levels, advise and mentor graduate students, develop an independent, externally funded research program, participate in all aspects of the department's activities, and serve the professional community.

Through effective industrial advisory committees that provide valuable guidance, the department has numerous opportunities for the development of laboratories and sponsorship of applied research activities. By being an integral part of Texas A&M University, with its 19 colleges and schools and 3,950 faculty, there are excellent opportunities for interaction with scholars in other departments and colleges to support large scale initiatives, as well as access to graduate students to assist in instructional and applied research activities.

Applicants must have earned a doctorate in computer science, computer engineering, or a closely related discipline. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs ([viz.arch.tamu.edu](http://viz.arch.tamu.edu)). Applicants should submit a cover letter, curriculum vitae, teaching statement, research statement, and a list of three references (including postal addresses, phone numbers and email addresses) by applying for this specific position at the interfolio website: [apply.interfolio.com/71823](http://apply.interfolio.com/71823).

Review of applications and interviews will begin in January 15, 2020, and new applications will continue to be considered until the position is filled. For additional information, please contact the search committee chair Dr. Ergun Akleman, [ergun.akleman@tamu.edu](mailto:ergun.akleman@tamu.edu)

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Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

## Texas A&M University

*Tenure-Track Assistant Professor:  
Department of Visualization*

The Department of Visualization in the College of Architecture, at Texas A&M University, invites applications for a tenure track faculty position at the Assistant Professor level with research and teaching interests aligned with computer graphics and visualization. The expected start date is Fall 2020. This is a nine-month, full-time, academic appointment. Candidates should have relevant experience in computer graphics, data visualization modeling and simulation, artificial intelligence, machine learning, and/or human-computer interaction.

The successful applicants will teach courses at the undergraduate and graduate levels, advise and mentor graduate students, develop an independent, externally funded research program, participate in all aspects of the department's activities, and serve the professional community.

Through effective industrial advisory committees that provide valuable guidance, the department has numerous opportunities for the development of laboratories and sponsorship of applied research activities. By being an integral part of Texas A&M University, with its 19 colleges and schools and 3,950 faculty, there are excellent opportunities for interaction with scholars in other departments and disciplines to support large scale initiatives, as well as access to graduate students to assist in instructional and applied research activities.

A terminal degree (such as Ph.D. or equivalent) in a related field is required. In rare circumstances, candidates with an extraordinary record of accomplishment without a terminal degree will be considered. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs ([viz.arch.tamu.edu](http://viz.arch.tamu.edu)).

Applicants should submit a cover letter, curriculum vitae, teaching statement, research statement, and a list of three references (including postal addresses, phone numbers and email addresses) by applying for this specific position at the

interfolio website:  
[apply.interfolio.com/71821](http://apply.interfolio.com/71821).

Review of applications and interviews will begin in January 15 2020, and new applications will continue to be considered until the position is filled. For additional information, please contact the search committee chair Dr. Ergun Akleman, [ergun.akleman@tamu.edu](mailto:ergun.akleman@tamu.edu)

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## Texas A&M University-Corpus Christi

*Department of Computing Sciences*

*Faculty Position Announcement*

Texas A&M University-Corpus Christi (TAMU-CC) is a rapidly growing doctoral research university with more than 12,000 students. TAMU-CC, a Minority-Serving Institution and Hispanic-Serving Institution on the cultural border with Latin America, provides a robust campus experience focused on student and faculty success. Located on its own island on the Texas Gulf Coast, the "Island University" was

recently recognized as one of the most beautiful coastal campuses in the United States. In 2019, the Carnegie Commission of Higher Education designated TAMU-CC an R2 Doctoral University – High Research Activity. State-of-the-art classroom and laboratory buildings, support facilities, and recognized faculty strategically position TAMU-CC to achieve its goal of national and international prominence as an emerging research institution as designated in the Texas Higher Education Coordinating Board’s Accountability System.

TAMU-CC invites applications for 5 tenure-track positions in the Department of Computing Sciences for Fall 2020. The Department of Computing Sciences prepares students to pursue productive careers and advanced degrees in computer science or geospatial systems engineering. The department is also home to the recently formed Geospatial Computer Science PhD program, which is a first of its kind program, nationally and internationally, that emphasizes the theory of computer science for handling geospatial data and in exploring emerging technologies enabled by geospatial science & engineering.

Faculty hired under this initiative will play an integral role in the development and growth of the Ph.D. program as well as the BS and MS in Computer Science programs. Information about the department is available at <http://csci.tamucc.edu/>. Three of these positions represent a cluster hire in geospatial data science where we are seeking innovative, talented researchers in the areas such

as: machine learning, deep learning, data science, spatial simulation and modeling, computer vision and image processing, geospatial AI and analytics, geospatial software systems and computation. The

other two positions will be filled with applicants with a focus in cybersecurity and applications of cybersecurity to Geospatial Computer Science.

## UC San Diego



### Associate or Full Professor - Data Science Ethics

UC San Diego Philosophy (<http://philosophy.ucsd.edu>) and the Halicioglu Data Science Institute (HDSI) (<https://datascience.ucsd.edu/>) seek applications for tenure-track faculty position in Data Science Ethics. Must possess PhD in Philosophy, Computer Science, or related field. PhD conferred by the appointment’s start date in Philosophy, Computer Science, or related field is required at start of the position.

Salary is commensurate with qualifications and based on University of California pay scales.

Review of applications will begin on 1 November 2019 and continue until the position is filled.

Apply here: <https://aptrkr.com/1769538>.

*AA-EOE: UCSD is an AA/EOE/M/F/D/V/ employer with a strong commitment to excellence and diversity (<http://diversity.ucsd.edu>).*

## UC San Diego



### Assistant Professor - Data Science Ethics

UC San Diego Philosophy (<http://philosophy.ucsd.edu>) and the Halicioglu Data Science Institute (HDSI) (<https://datascience.ucsd.edu/>) seek applications for tenure-track faculty position in Data Science Ethics. Must possess PhD in Philosophy, Computer Science, or related field. PhD conferred by the appointment’s start date in Philosophy, Computer Science, or related field is required at start of the position.

Salary is commensurate with qualifications and based on University of California pay scales.

Review of applications will begin on 1 November 2019 and continue until the position is filled.

Apply here: <https://aptrkr.com/1775387>.

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For specific details and qualification requirements for each of these two searches or to apply visit the following website, <https://islanderjobs.tamucc.edu>.

The application deadline is December 13, 2019 for the geospatial data science cluster and December 2, 2019 for the cybersecurity focus. All required documents must be provided by the deadline for full consideration.

## University of California, Irvine

### *Three Assistant (Tenure Track), Associate or Full (Tenured) Professor Positions*

The Institute for Design and Manufacturing Innovation (IDMI) in the Samueli School of Engineering is spearheading an effort to hire a cluster of 3 faculty members in the general field of Science and Engineering of Advanced Manufacturing. Appointments will be made in one of the departments of the School of Engineering. These positions will leverage significant campus resources in the area of Additive Manufacturing (<http://manufacturing.uci.edu>) and the world-class infrastructure in Materials Characterization (<http://imri.uci.edu>). The research expertise and interests of the candidates should align with at least one of the following areas: (1) Design, control and fabrication of advanced manufacturing processes; (2) Computational Materials Science applied to manufacturing; (3) Electronic materials manufacturing; (4) Artificial Intelligence for manufacturing.

Applications must be received by January 31, 2020, to receive full consideration. All positions will remain open until filled. More information about this search and application instructions are available at <https://recruit.ap.uci.edu/apply/JPF05902>

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. A recipient of an NSF ADVANCE award for gender equity, UCI is responsive to the needs of dual-career couples, supports work-life balance through an array of family-friendly policies, and is dedicated to broadening participation in higher education.

## University of Central Arkansas

### *Assistant Professor of Cybersecurity*

The Department of Computer Science at the University of Central Arkansas is seeking exceptional candidates for a tenure-track Assistant Professor position in Cybersecurity beginning in August 2020. Currently, the department has 15 full-time faculty members and offers BS programs in Computer Science (accredited by ABET CAC), Computer Engineering, and

Cybersecurity as well as an MS program in Computer Science.

A doctorate in Computer Science, Computer Engineering, Electrical Engineering, or a related discipline with a focus on Cybersecurity is required by the start date of the position, but ABD candidates will also be considered. Preference will be given to candidates with expertise in applications of Artificial Intelligence, Machine Learning, or Data Mining in Cybersecurity. Duties include teaching at both the undergraduate and graduate levels, research, and professional service.

Applicants should submit a cover letter, a curriculum vitae, statements of teaching and research, and the names of at least three references via <https://jobs.uca.edu/postings/6311>. Review of applications will begin on January 9, 2020, and will continue until the position is filled. For questions, contact the department chair at [ecelebi@uca.edu](mailto:ecelebi@uca.edu). Additional information about the department is available at <https://uca.edu/computerscience>. UCA is an EO/AA Employer.

## University of Central Florida

### *Multiple Tenure-track or Tenured Positions in Computer Science*

The University of Central Florida (UCF) is recruiting for several tenure-track or tenured positions in the department of Computer Science (CS) and several faculty



## UC SANTA CRUZ



### Computational Media: Associate or Full Professor in Serious Games (Initial Review 1/07/20)

#### Recruitment Period

**Open date:** November 8th, 2019 **Next review date:** Tuesday, Jan 7, 2020 at 11:59pm (Pacific Time)

Apply by this date to ensure full consideration by the committee. **Final date:** Tuesday, Jun 30, 2020 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

#### Description

The Department of Computational Media (<https://www.soe.ucsc.edu/departments/computational-media>) at the University of California, Santa Cruz (UCSC) invites applications for a tenured (up to Full Professor) position in Serious Games. We seek a senior Computational Media researcher who works in game technology, games user experience, game design and development, efficacy evaluation, critical media making, game artificial intelligence, interactive narrative, novel interface technologies, virtual reality, augmented reality, procedural content generation, game software engineering, agent architectures for game characters, game analytics and visualization, natural language generation and dialog systems for games, platform studies, automated analysis of games, scholarly interpretation, and/or another computational media approach. This work should include a significant contribution to serious/applied games, in an area such as, but not limited to: games for change, games for health, educational games/training games, activist/organizing games, gamification, citizen science games, data collection games, games for government, tools for democratizing game-based expression, and human computation games.

The successful candidate is expected to enact a research program, advise PhD and MS students in their research area, advise professional MS students on their projects and career aspirations, obtain external funding, develop and teach courses within the undergraduate and graduate curriculum, perform university, public, and professional service, and be able to work with students, faculty, and staff from a wide range of social and cultural backgrounds. The successful candidate is expected to be appointed as the Vice Chair of Computational Media for the Serious Games MS program, and in that role will direct and lead the program. The Vice Chair will teach in the program, work as a bridge between the substantial games research at UC Santa Cruz and this professional program, and serve as the program's representative and advocate in the Senate faculty.

UC Santa Cruz values diversity, equity, and inclusion and is committed to hiring faculty who share these values. To be considered, candidates must demonstrate an understanding of the barriers facing women and underrepresented minorities, and describe their experience and future plans to promote equity and inclusion in teaching, mentoring, and research. Financial and in-kind resources will be made available to faculty who promote equity and inclusion at UC Santa Cruz, and their work will be recognized as important university service during the faculty promotion process.

This position is one part of a departmental growth plan associated with the just-launched Professional MS program in Serious Games, ongoing Professional MS program in Games and Playable Media, and proposed Professional MS program in Human-Computer Interaction, all located in the UCSC Silicon Valley Campus in Santa Clara, California. The primary office for this position is located in Santa Clara, due to the expectation of teaching and mentoring students in this location. Space for PhD students for this position is also located in Santa Clara. This position is expected to spend multiple days per week in Santa Clara, and is also expected to spend on average one day per week on the Santa Cruz campus (more during Santa Cruz teaching quarters). Teaching duties will typically involve teaching two courses per year (the Vice Chair position carries a course release) which will typically be two graduate classes each year in Santa Clara, though in some years may involve teaching one class in Santa Cruz. The successful candidate must have the ability for on-demand transportation between Santa Clara and Santa Cruz with or without accommodations.

#### ACADEMIC TITLE

Associate or Full Professor, Tenured.

#### SALARY

Commensurate with qualifications and experience; academic year (nine-month basis).

#### BASIC QUALIFICATIONS

PhD, equivalent foreign degree, or other terminal degree in Computer Science, Digital Media, Human Computer Interaction, Computer Games, Computational Media, or other relevant field; demonstrated record of research; demonstrated record of publications; demonstrated experience in teaching and/or mentoring in a research context such as a university, national lab, or research group within a company; a demonstrated record of research funding; and, a demonstrated record of University and/or public service.

#### POSITION AVAILABLE

July 1, 2020, with the academic year beginning in September 2020.

#### APPLICATION REQUIREMENTS

Applications are accepted via the UCSC Academic Recruit online system; all documents and materials must be submitted as PDFs.

**APPLY AT <https://apptrk.com/1747114>**

Please refer to Position # JPF00784-20 in all correspondence.

#### Reference Requirement

Applications must include confidential letters of recommendation\* (a minimum of 3 are required and a maximum of 4 will be accepted). Please note that your references, or dossier service, will submit their confidential letters directly to the UC Recruit System.

\*All letters will be treated as confidential per University of California policy and California state law. For any reference letter provided via a third party (i.e., dossier service, career center), direct the author to UCSC's confidentiality statement at <http://apo.ucsc.edu/confstm.htm>.

#### RECRUITMENT PERIOD

Full consideration will be given to applications completed by January 7, 2020. Applications received after this date will be considered only if the position has not been filled.

The University of California 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, age, or protected veteran status. UC Santa Cruz is committed to excellence through diversity and strives to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. Inquiries regarding the University's equal employment opportunity policies may be directed to the Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064 or by phone at (831) 459-3676.

Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UCSC positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check (see <https://www.uscis.gov/e-verify>). More information is available at the APO website (see <https://apo.ucsc.edu/policy/capm/104.000%20.html>) or call (831) 459-4300.

UCSC is a smoke & tobacco-free campus

If you need accommodation due to a disability, please contact the Academic Personnel Office at <mailto:apo@ucsc.edu> (831) 459-4300.

Visit the Apo Web Site at <http://apo.ucsc.edu>

Our institution is committed to addressing the spousal and partner employment needs of our candidates and employees. As part of this commitment, our institution is a member of the Northern California Higher Education Recruitment Consortium (NorCal HERC). Visit the NorCal HERC website at <https://www.hercjobs.org/regions/higher-ed-careers-northern-california/> to search for open positions within a commutable distance of our institution

#### Job location

Santa Clara, CA

#### Requirements

##### Document requirements

- Cover Letter - Letter of application that briefly summarizes your qualifications and interest in the position
- Curriculum Vitae - Your most recently updated C.V.
- Statement of Contributions to Diversity, Equity, and Inclusion - Initial screening of candidates will be based solely on anonymized statements of contributions to diversity, equity, and inclusion. This is a statement addressing your past and future contributions to diversity, equity, and inclusion through research, teaching, and service, as well as your understanding of the barriers facing women, people of color, and other groups underrepresented in engineering (750 words max). Candidates are urged to review guidelines on statements before preparing their application: <https://apo.ucsc.edu/diversity.html><https://apo.ucsc.edu/diversity.html>.
- Statement of Research Plans
- Statement of teaching/mentoring plans and experience
- Select Publication (1 of 3 required)
- Select Publication (2 of 3 required)
- Select Publication (3 of 3 required)

##### Reference requirements

- 3-4 letters of reference required

clusters with possible positions in CS. All positions start on August 8, 2020.

Ideal candidates will have a strong research background and be on an upward leadership trajectory. They will have research impact, as reflected in high-quality publications and the ability to build a well-funded research program. Minimum qualifications include a Ph.D., terminal degree, or foreign degree equivalent in an area appropriate to the department, from an accredited institution at the time of the appointment, and a record of high impact research, demonstrated by a strong scholarly and/or funding record. Tenure requires a commensurate record of teaching, research and service. Candidates must apply online at the appropriate link.

The positions available each have more detail available at the corresponding application which also has more information on that position: a) An assistant professor in Cyber Security and Privacy (<https://jobs.ucf.edu/en-us/job/498186/assistant-professor-computer-science>); b) An assistant professor in the Cyber Security and Privacy cluster (<https://jobs.ucf.edu/en-us/job/498145/assistant-professor-cyber-security-and-privacy>); c) An assistant or associate professor in the Learning Sciences cluster (<https://jobs.ucf.edu/en-us/job/498136/assistant-or-associate-professor-learning-sciences>); d) An assistant or associate professor in the Disability, Aging, and Technology cluster in the area of Human Technology Interaction (<https://jobs.ucf.edu/en-us/job/498165/associate-professor-or-professor-humantechnology->

[interaction](https://jobs.ucf.edu/en-us/job/498165/associate-professor-or-professor-humantechnology-interaction) ); e) An associate professor or professor in the Disability, Aging, and Technology Cluster (<https://jobs.ucf.edu/en-us/job/498165/associate-professor-or-professor-humantechnology-interaction>); f) An assistant professor in Computer Vision (<https://jobs.ucf.edu/cw/en-us/job/498207?ApplicationSubSourceID=11250>); g) An instructor or lecturer in Computer Science or Information Technology (<https://jobs.ucf.edu/en-us/job/498183/instructor-or-lecturer-computer-science-and-information-technology>).

Position (a) and (b) seek applicants at the intersection of Cybersecurity/Privacy and at least one of Computer Architecture, Compiler/Code Generation, and System (OS, file, storage, networked).

**CS at UCF** is home to the first CS Ph.D. program in Florida. Its 34 tenured and tenure-track faculty are engaged in world-class research in HCI, Computer Vision, AI and Machine Learning, Virtual Reality, Cyber Security and Privacy, Computer Architecture/System, and many other areas. The department has both CS and IT undergraduate degrees accredited by ABET, and MS degrees in CS, Digital Forensics, and Data Analytics, and a Ph.D. in CS, see [www.cs.ucf.edu](http://www.cs.ucf.edu).

**UCF** is one of the nation's largest universities. An economic engine, UCF attracts and supports vital industry to Orlando. UCF's is at the center of the Florida High Tech Corridor, where industries include software, defense, space, simulation & training, and entertainment. Next to UCF is a thriving

research park that conducts over \$2 billion in funded research. UCF is a neighbor to large corporations such as Disney, Harris Corporation, Lockheed Martin, Siemens, Oracle, Apple, AMD, and many others. Great weather, easy access to the seashore, one of the largest convention centers in the nation, and one of the world's best airports are just a few features that make Orlando an ideal location. Orlando has one of the fastest growing and dynamic economy in the nation. In 2018, Orlando metro area had the fifth largest increase in population. Learn more about UCF at [www.ucf.edu/faculty](http://www.ucf.edu/faculty).

As an equal opportunity/affirmative action employer, UCF encourages all qualified applicants to apply, including women, veterans, individuals with disabilities, and members of traditionally underrepresented populations. UCF's Equal Opportunity Statement can be viewed at: [www.oie.ucf.edu/documents/PresidentsStatement.pdf](http://www.oie.ucf.edu/documents/PresidentsStatement.pdf). As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

## University of Chicago Harris School of Public Policy

### *Postdoctoral Researcher - Data Analytics*

The Harris School of Public Policy seeks postdoctoral researchers in data analytics. Postdoctoral researchers work on independent research under a senior faculty member's guidance, teach 2 quarter-length courses per year, and participate in the academic

life of the school (including attending workshops and seminars). The position of postdoctoral researcher at the rank of an instructor is initially for a one-year, renewable term.

Candidates should have a demonstrated record of research achievement. Candidates are expected to complete their Ph.D. by the appointment start date. To apply for this position, candidates must submit their application through the University of Chicago's Interfolio academic jobs board at: [apply.interfolio.com/73028](https://apply.interfolio.com/73028). Applicants must upload a: 1) cover letter; 2) curriculum vitae; 3) one writing sample, and 4) two letters of recommendation. Applicants may also submit optional documents such as a third letter of reference and/or an additional writing sample. Review of applications will begin on February 8, 2020. No applications will be accepted after June 30, 2020.

## 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 Harris School of Public Policy

### *Full-Time Lecturer - Data Science*

The Harris School of Public Policy invites applications for a Full-Time Lecturer for the 2020-2021 academic year to expand its course offerings in data science, data visualization, programming, and civic technology. The position will be a two-year, renewable appointment. The Lecturer will teach four to six courses per academic year, depending on non-classroom responsibilities.

Specific course offerings can be tailored to the strengths of well-qualified applicants, with the possibility for highly-specialized electives. Possible courses include: Introduction to Programming, Data Visualization for Policy Analysis, Big Data and Policy Research, Civic Technology, and/or Data Privacy and Ethics in Governance. Applications will be evaluated on their expertise in using data and technology for social impact, as well

as their teaching/instruction experience. Qualified candidates will hold a Masters degree and have relevant field experience, or hold a Ph.D. in a related field.

Applicants must apply online at the University of Chicago's Interfolio academic job board at: [apply.interfolio.com/72816](https://apply.interfolio.com/72816). Applicants are required to submit the following materials with their applications: 1) curriculum vitae; 2) contact information for 2 references; 3) teaching statement; and 4) teaching evaluations. Review of applications will begin on January 29, 2020. Letters of reference will be solicited by the search committee after the initial review of applications. No applications will be accepted after May 31, 2020.

The 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 Colorado Denver

### Tenure-Track Faculty

The Department of Computer Science and Engineering in the College of Engineering, Design and Computing at the University of Colorado Denver invites applications for a tenure-track faculty position at the rank of Assistant Professor. This position will be expected to develop and teach lecture and laboratory courses at all levels; establish an active, externally-

funded research program; conduct high quality research involving students at all levels, leading to sponsored research and refereed publications; and advise students. A Ph.D. in Computer Science or a closely related field is required. The search is open to all fields in computer science, but we encourage applications in cybersecurity, AI, robotics, cloud computing, mobile computing, HCI, and software engineering. Appointments at the Assistant, Associate, or Full Professor ranks are possible. For appointments at the rank of Associate Professor or Professor, a substantial nationally recognized record of research, publication, teaching, and service meeting criteria for a tenured faculty position at the University of Colorado will be required. Salary is commensurate with skills and experience.

To view the complete posting and to apply online, visit [CU Careers](#)

Questions should be directed to [CSE.search@ucdenver.edu](mailto:CSE.search@ucdenver.edu). Formal review of applications will begin January 1, 2020, and will continue until the position is filled.

## University of Colorado - Computer Science and Engineering

### College of Engineering, Design and Computing

#### Open Rank Faculty Position

The Department of Computer Science and Engineering at the University of Colorado Denver invites applications for an open rank faculty position and is especially interested in applications from women and underrepresented minorities with teaching and research interests in biomedical engineering and health technology. This position is part of a strategic initiative to grow research and education in health technologies and systems across the college. The successful applicant will be expected to build an impactful research program through a new bioengineering research and innovation center that will launch this year with a physical home on the Anschutz Medical Campus. The successful candidate will be expected to develop a competitive extramurally-sponsored research program as well as collaborations across both the Downtown campus and Anschutz Medical Campus. Teaching at both the undergraduate



## University of Colorado Anschutz Medical Campus

### CLINICAL TEACHING TRACK ASSISTANT PROFESSOR OR INSTRUCTOR COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering at the University of Colorado Denver invites applications for multiple non-tenure track faculty positions at the level of Instructor, Senior Instructor or Assistant Professor (open rank), Clinical Teaching Track. These positions will be responsible for developing courses for the new Bachelor of Arts in Computer Science to grow the curriculum.

For full details and to apply, visit <https://cu.taleo.net/careersection/2/jobdetail.ftl?job=17460&lang=en>

*The University of Colorado Denver | Anschutz Medical Campus is committed to recruiting and supporting a diverse student body, faculty and administrative staff. The university strives to promote a culture of inclusiveness, respect, communication and understanding. We encourage applications from women, ethnic minorities, persons with disabilities and all veterans. The University of Colorado is committed to diversity and equality in education and employment.*

and graduate level is expected. A Ph.D. in Computer Science, Mechanical Engineering, Bioengineering, Chemical Engineering, or a closely related field is required, as well as demonstrated expertise in biomedical engineering or health technology systems as evidenced by the candidate's publication and funding record. The search is open to all fields in computer science toward biomedical and health applications, but we encourage applications from investigators in AI/ Machine Learning. Salary is commensurate with skills and experience.

To view the complete posting and to apply online, visit CU Careers (add this link: <https://cu.taleo.net/careersection/2/moresearch.ftl?lang=en>) refer to requisition ID: 17530. Please do not submit any application material via email or in hard copy. Questions should be directed to Professor Min Choi, [min.choi@ucdenver.edu](mailto:min.choi@ucdenver.edu). Formal review of applications will begin November 1, 2019, and will continue until the position is filled.

## University of Colorado

### Director of Cybersecurity Programs

The University of Colorado Colorado Springs (UCCS) has a job opening for a Director of Cybersecurity Programs. For further information about UCCS and details about the position and the application process, please visit us at <https://cu.taleo.net/careersection/jobdetail.ftl?job=17172&lang=en>

## University of Copenhagen

### Postdoctoral Fellowship(s) in Theoretical Computer Science

Department of Computer Science, Faculty of Science at University of Copenhagen (DIKU) is offering Postdoctoral positions in theoretical computer science expected to commence 1 September 2020 or as soon as possible thereafter.

The postdoctoral researchers will be working in the research group of Jakob Nordström. Much of the research revolves about gaining a better theoretical understanding of powerful algorithmic paradigms such as, e.g., SAT solving, Gröbner basis computations, integer linear programming, and/or semidefinite programming. This leads to classic questions in computational complexity theory – though often with new, interesting twists – but can also involve work on designing new algorithms that can exploit the power of such paradigms in practice. Our research has revealed deep, and sometimes surprising, connections to other topics such as, e.g., circuit complexity, communication complexity, and hardness of approximation, and therefore researchers in these or other related areas are more than welcome to apply.

The Algorithms and Complexity Section at DIKU is part of an exciting environment including the Basic Algorithms Research Copenhagen (BARC) centre (<https://barc.ku.dk/>), joint with the IT University of Copenhagen, and extensive collaborations with the Technical University of Denmark

(DTU) and Lund University on the Swedish side of the Øresund bridge. We aim to attract top talent from around the world to an ambitious, creative, collaborative, and fun environment. Using the power of mathematics, we strive to create fundamental breakthroughs in algorithms and complexity theory.

Within the overall framework sketched above, the postdocs will be expected and encouraged to contribute to and influence the research agenda. Taking part in teaching graduate seminar courses is encouraged but not required. Travel funding is included, and the group also receives on a regular basis.

These postdoc positions are full-time employed positions for one year with a possible (and expected) one-year extension. The expected starting date is September 2020, although this is to some extent negotiable.

Further information about the department is linked at <http://www.science.ku.dk/english/about-the-faculty/organisation/>. Inquiries about the position can be made to Jakob Nordström at [jn@di.ku.dk](mailto:jn@di.ku.dk).

The university wishes for our staff to reflect the diversity of society and thus welcomes applications from all qualified candidates regardless of personal background.

### Requirements

Applicants should have or be about to receive a PhD degree in a subject relevant for the research area, and should have

a passionate interest in research. The successful candidate is expected to have a solid background in theoretical computer science and mathematics, and should have a strong research record as witnessed by publications in conferences such as STOC, FOCS, SODA, CCC, or similar, or in journals of a comparable quality.

## Terms of employment

The position is covered by the Memorandum on Job Structure for Academic Staff.

Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State.

The starting salary is currently up to DKK 434.179 including annual supplement (+ pension up to DKK 74.244). Negotiation for salary supplement is possible.

The application, in English, must be submitted electronically by clicking APPLY NOW below.

## Please include

The application should include the following documents:

- Curriculum vitae.
- List of publications.
- Brief research statement with description of research so far and future research goals and interests.
- Diplomas (Master and PhD degree or equivalent)

- Names and addresses of three or more individuals who will provide letters of recommendation.

The deadline for application is 10 February 2020, 23:59 GMT +1.

You can read about the recruitment process at <http://employment.ku.dk/faculty/recruitment-process/>.

## Apply

<https://candidate.hr-manager.net/ApplicationInit.aspx?cid=1307&ProjectId=150961&DepartmentId=18970&MediaId=4638&SkipAdvertisement=true>

## University of Dayton

### *Associate professor or Professor and Chairperson (1 position), Computer Science*

Are you seeking to engage in research and education that supports the common good? Are you looking for a university which will enable your commitment to educating the next generation? Are you excited about the opportunity to create and test experiential learning strategies? Are you committed to growing participation of women and under-represented minorities in computer science? The University of Dayton seeks a collaborative and strategic academic leader to serve as chairperson of the Department of Computer Science in the College of Arts and Sciences beginning July 1, 2020. The chairperson will be hired with tenure and at the rank of Associate Professor or Professor. The chairperson

is responsible for administrative, curricular, co-curricular and budgetary facets of the department, plays a unique role engaging students and faculty, and facilitates building and sustaining partnerships across the University and in the broader community. The Chair will have an opportunity to lead a vibrant and respected department in elevating its research profile and extramurally funded research, launching a new PhD program, mentoring a young and growing faculty, and building collaborative partnerships on campus and in industry. The Computer Science program, which was founded in 1961, was one of the first undergraduate programs in computer science in the United States. Department faculty enjoy active collaborations with the university's School of Engineering and the newly established Center for Cybersecurity and Data Intelligence. The University of Dayton recently completed a strategic visioning process, whereby it strives to be a university that advances the common good. See [udayton.edu/vision](http://udayton.edu/vision).

The Department of Computer Science offers an ABET-accredited bachelor of science in computer science, a bachelor of science in computer information systems, and a master of science degree of computer science. The department currently has 120 undergraduate majors and 360 master's level students. The department recently received approval to launch a Ph.D. in Computer Science that will begin admitting students for the Fall 2020 semester. The department has seen sizable growth in student enrollment and faculty numbers in the recent past and

anticipates continued hiring to support its developing programs. The new chair will play a pivotal role in the ongoing growth and success of the department and the doctoral program. The Department of Computer Science will relocate during the 2020-21 academic year to a newly renovated facility. The 58,000-square-foot project will include new classroom, laboratory and office spaces, as well as an enclosed walkway to connect the facility to Kettering Laboratories. The new space is expected to be occupied in January 2021. See renderings of the new space here: <https://udayton.edu/artssciences/academics/computerscience/index.php>

The University of Dayton is a top tier, Catholic Research University with offerings from the undergraduate to the doctoral levels. Founded in 1850 by the Society of Mary, the University is a diverse community committed to advancing the common good through intellectual curiosity, academic rigor, community engagement and local, national and global partnerships. Guided by the Marianist educational philosophy, we educate the whole person and link learning and scholarship with leadership and service. Applicants must possess the following minimum qualifications: Ph.D. in Computer Science or closely related area Administrative experience in higher education in the United States Record of leadership accomplishments in higher education Articulated commitment to advancing diversity and inclusion Record of teaching, research, and service commensurate with the criteria for the rank of Associate Professor in the

Department of Computer Science and in the College of Arts and Sciences at the University of Dayton. Excellent written communication skills. Appointment at the rank of professor requires a record of teaching, research and service commensurate with the criteria for the rank of professor in the College of Arts and Science at the University of Dayton. For a complete list of qualifications for the position and to apply, please go to: <http://employment.udayton.edu/cw/en-us/job/497646/associate-professor-or-professor-and-chairperson-computer-science-1-position>

Applicants must submit: a curriculum vitae, a cover letter that describes their leadership experience and how their record meets the qualifications for the position, a research statement, syllabi and summary of student evaluations from the last three courses taught, and a statement (in 500 words or less) in which you describe how you would advance diversity, equity, and inclusion through your leadership, research, teaching, and service. Applicants must also provide contact information for three professional references. References will not be contacted until the committee has narrowed the pool and secured permission from the candidates. Additional information may be requested later for candidates who advance through the search process.

Applications must be received by February 3, 2020. Informed by its Catholic and Marianist mission, the University is committed to the principles of diversity,

equity, and inclusion. Informed by this commitment, we seek to increase diversity, achieve equitable outcomes, and model inclusion across our campus community. As an Affirmative Action and Equal Opportunity Employer, we will not discriminate against minorities, women, protected veterans, individuals with disabilities, or on the basis of race, color, national origin, religion, sex, sexual orientation or gender identity. The University is also pleased to provide support for spouses of prospective and newly hired faculty through its dual career program. While we cannot guarantee placement, we serve as an effective resource and support system for your spouse. Information can be found at [http://www.udayton.edu/hr/employee\\_resources/dual\\_career\\_resources.php](http://www.udayton.edu/hr/employee_resources/dual_career_resources.php)

## University of Delaware

### *Assistant/Associate Professor Positions in Disaster Science*

The University of Delaware (UD) (<http://www.udel.edu/>) invites applications from talented scholars pursuing interesting questions related to disasters, hazards, risk, and crisis. We are looking to fill multiple tenure-track/tenured positions in Disaster Science at the Assistant or Associate Professor. Faculty will have a tenure-track/tenured home in either Computer Information Sciences or Civil and Environmental Engineering at the University of Delaware and join, as core faculty, the world-renowned Disaster Research Center (DRC). Please visit <http://www.>

[udel.edu/006165](http://udel.edu/006165) for a full-length description of the position and to apply. Review of applications will continue until the positions are filled.

The University of Delaware is an Equal Opportunity Employer with diversity as one of its core values and, in that spirit, seeks a broad spectrum of candidates including women, those from historically underrepresented groups and people with disabilities. The University's Notice of Non-Discrimination can be viewed at [www.udel.edu/aboutus/legalnotices.html](http://www.udel.edu/aboutus/legalnotices.html).

## University of Delaware

*Department of Computer and Information Sciences*

*Tenure-track Assistant Professors*

Applications are invited for tenure-track assistant professors in the areas of Cybersecurity, Human-Computer Interaction, Machine Learning, and Computer Vision. Applicants should hold a Ph.D. or its equivalent. We encourage all ambitious, innovative individuals, who have demonstrated excellence in research and drive to become leaders in their fields while engaging in high-quality teaching and mentoring of diverse students, to apply.

New faculty will have ample opportunities to join the many university initiatives, including the Data Science Institute ([dsi.udel.edu](http://dsi.udel.edu)), Cybersecurity Initiative ([csi.udel.edu](http://csi.udel.edu)), and those supported by Delaware Biotechnology Institute ([www.dbi.udel.edu](http://www.dbi.udel.edu)), Center for Bioinformatics

& Computational Biology (bioinformatics, [udel.edu](http://udel.edu)), Institute for Financial Services Analytics ([www.lerner.udel.edu/centers/ifsa](http://www.lerner.udel.edu/centers/ifsa)), and Health Sciences at the 272-acre STAR campus ([chs.udel.edu/star/](http://chs.udel.edu/star/)). The Department is vibrant and growing, currently with 23 tenure-track, 7 teaching, and 5 research faculty members, about 130 graduate students and 530 undergraduate students.

The University is a Land-Grant, Sea-Grant, and Space-Grant institution, and its beautiful 100-acre central campus is located halfway between Washington, DC and New York City, and about one hour away from Baltimore and Philadelphia.

Please visit <https://careers.udel.edu/en-us/job/494439/> to apply. Review of applications will begin on November 15, 2019.

## University of Georgia

*Franklin College of Arts & Sciences*

*Department of Computer Science*

*Two Assistant Professor Positions with Emphasis on AI Security and System Security*

The Department of Computer Science at the University of Georgia invites applications for two tenure-track Assistant Professor positions starting August 2020. Applicants should hold a Ph.D. in Computer Science or closely related field at the time of appointment, have a strong research record, and show a commitment to excellence in both research and teaching.

For the AI Security position, we are interested in candidates with an interdisciplinary research background in AI and cybersecurity. Candidates with at least one year of significant research experience in AI Security, including, but not limited to, topics such as adversarial attacks through data poisoning and adversarial examples, model trojans, membership inference attacks, deep fakes, and smart deception, are especially encouraged to apply.

For the System Security position, we are interested in candidates with an extensive research background in cybersecurity. Candidates with at least one year of significant research experience in System Security, including, but not limited to, topics such as software testing, binary analysis, and automated vulnerability discovery, are especially encouraged to apply.

We currently have six successful faculty members working in cybersecurity and privacy areas, with focus on System and Network Security, Hardware Security, and Privacy. The department also has five successful faculty members working in various areas of AI, including machine learning and computer vision, with close ties to UGA's Institute for Artificial Intelligence. The ideal candidates for these positions will complement and further strengthen our department's research and education efforts in computer security, privacy, and its applications to AI technologies. Each position offers a competitive salary and generous startup package.

UGA has established an Institute for Cyber Security and Privacy (ICSP), which is housed in the Computer Science Department. The University of Georgia has been designated as a National Center of Academic Excellence in Cyber Defense Research (CAE-R) through academic year 2022. Additional information about the ICSP can be found at the following link: <http://cybersecurity.uga.edu/>. In addition, the Department will offer an MS in Cybersecurity starting in Fall 2020, and the Institute for AI offers a MS in AI.

Computer Science is a growing and congenial department of 33 faculty within the Franklin College of Arts and Sciences. The department has more than 1,150 undergraduate and more than 200 graduate students and offers the B.S., M.S., and Ph.D. degrees in CS. The teaching load allows for substantial concentration on research. Please see <http://www.cs.uga.edu> for more information about the department.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and to sustaining a work and learning environment that is inclusive. Women, minorities, protected veterans and individuals with disability are encouraged to apply. The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity,

sexual orientation, or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR ([hrweb@uga.edu](mailto:hrweb@uga.edu)). Please do not contact the department or search committee with such requests.

UGA, a land-grant and sea-grant university with statewide commitments and responsibilities is the state's oldest, most comprehensive and most diversified institution of higher education (<http://www.uga.edu>). UGA is currently ranked among the top 20 public universities in U.S. News & World Report.

To apply for the AI Security position, please go to

<http://www.ugajobsearch.com/postings/136048>

To apply for the System Security position, please go to

<http://www.ugajobsearch.com/postings/136029>

Please upload a cover letter, curriculum vitae, and short statements of research interests and teaching philosophy. Please provide contact information (email and telephone number) for three references. Review of applications will begin on February 10, 2020 and will continue until the positions are filled.

## University of Louisiana at Lafayette

*Professor and Director of the School of Computing and Informatics*

The University of Louisiana at Lafayette invites application for a Professor and Director of the School of Computing and Informatics. Exceptional candidate will also be considered for Computer Science Trust Fund Eminent Scholar Chair, with a nationally competitive compensation package. The applicants must have a doctorate in computer science or a related area, a strong track record in doctoral student supervision, an externally funded research program, intellectual interests to lead or contribute to multidisciplinary, must have served in leadership roles in an academic environment—preferably as a Department Head at a university with strong research and teaching programs—and have a strong record of professional service in academic and research communities.

Further details and application information are available at:

<https://louisiana.csod.com/ats/careersite/JobDetails.aspx?site=1&id=608&source=cra>

Applications will be reviewed until positions are filled. First consideration will be given to applications received by February 15, 2020.

University of Louisiana at Lafayette is an Equal Opportunity/Affirmative Action/Disability/Veterans Employer.

Job Ad# (req608)

## University of Louisville

### *Two Tenure-Track Faculty Positions in Computer Science and Engineering*

The Computer Science and Engineering Department at the University of Louisville welcomes applications for two tenure-track faculty positions starting Fall 2020. More information on these positions are available at the following links:

Position #1: <https://www.higheredjobs.com/details.cfm?JobCode=177093688>

Position #2: <https://www.higheredjobs.com/details.cfm?JobCode=177113459>

## University of Louisville

### *Tenure-Track Assistant Professor Position (#2) in Computer Engineering and Computer Science*

The Department of Computer Engineering and Computer Science (CECS) at the University of Louisville invites applications for a tenure-track Assistant Professor position. Outstanding candidates at higher ranks may also be considered. We seek candidates in all areas of computer science; however, candidates with core research interests in cybersecurity and privacy, including but not limited to systems and hardware security (operating systems, distributed systems, embedded systems, cyber-physical systems, etc.), software security, data security and privacy-preserving protocols, network security, blockchains, and cryptocurrencies, and trust management, are especially encouraged to apply.

The department offers ABET-accredited BS and MENG degrees in CECS, an MS degree in CS, and a Ph.D. degree in CSE. Successful candidates will be expected to teach core undergraduate CECS courses, in addition to graduate-level courses in her/his research areas; develop an independent, externally funded research program commensurate with the expectations of an R1 university along with a commitment to high-quality teaching; mentor diverse students; participate in all aspects of the department's mission; and serve the profession.

Review of applications will commence on January 6, 2020, and will continue until the position is filled. Applicants must apply online at <http://www.louisville.edu/jobs> and submit: (1) a cover letter clearly stating the position name and job ID number; (2) a curriculum vitae (including the names and contact information of at least three referees); (3) a research statement; and (4) a teaching statement.

The full position description and application details can be found at the following link:

<https://www.higheredjobs.com/details.cfm?JobCode=177113459>

## University of Louisville

### *Tenure-Track Assistant Professor Position in Computer Engineering and Computer Science*

The Department of Computer Engineering and Computer Science (CECS) at the University of Louisville invites applications for a tenure-track Assistant Professor position. Outstanding candidates at higher ranks may also apply.

Exceptional candidates in all areas of CECS will be considered, but of particular interest are candidates specializing in the areas of Robotics, Embedded Systems, IoT, Hardware-Embedded Intelligence and Learning and Optimization, Artificial Intelligence, and Cyber-Physical Systems.

CECS offers ABET-accredited BS and MENG degrees in CECS, an MS degree in CS, and a PhD degree in CSE. Successful candidates will be expected to teach core undergraduate CECS courses such as introduction to programming, data structures, algorithms, embedded systems, and operating systems.

Applicants must submit: (1) a cover letter clearly stating the position name and job ID number; (2) a curriculum vitae (including the names and contact information of at least three referees); (3) a research statement; and (4) a teaching statement. Review of applications will commence on January 6, 2020, and will continue until the position is filled.

The full position description and application details can be found at the following link:

<https://www.higheredjobs.com/details.cfm?JobCode=177093688>

## University of Louisville

### *Assistant Professor Term (Computer Engineering and Computer Science) Position Description*

The Department of Computer Engineering and Computer Science at the University of Louisville seeks candidates for a Term Assistant Professor position (non-tenure track) with a start date of January, 2020. Ideal candidates will have a Ph.D. in Computer Engineering and/or Computer Science (or a closely related field), a strong grasp of the fundamentals, outstanding communication skills, and a passion for making meaningful, positive contributions to the educational experience. Moreover, because this position emphasizes teaching, the ideal candidate should be comfortable teaching a broad range of Computer Science and Engineering courses. These subjects include but are not limited to C/C++, Java/OOP, Data Structures, Cybersecurity, Embedded Systems, Databases and Operating Systems.

The Speed School of Engineering is home to eight departments, with an undergraduate enrollment of approximately 2000; the university has an approximate undergraduate enrollment 17,500. The university also has a graduate enrollment of approximately 4,200, in keeping with its research one status. Located between Cincinnati, Indianapolis, and Nashville, Louisville is the state's major metropolitan area with a population of approximately 750,000.

Applications consist of a cover letter that indicates qualifications for the position (1 page), a statement of teaching experience and philosophy (3 pages max.), a current curriculum vitae, and a list of names and contact information for 3 references. Materials are to be submitted online. Review of applications will begin on September 30, 2019; applications will be accepted until the position is filled.

### **Equal Employment Opportunity**

The University of Louisville is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, sex, age, color, national origin, ethnicity, creed, religion, disability, genetic information, sexual orientation, gender, gender identity and expression, marital status, pregnancy, or veteran status. If you are unable to use our online application process due to an impairment or disability, please contact the Employment team at [employment@louisville.edu](mailto:employment@louisville.edu) or 502.852.6258.

<https://www.higheredjobs.com/clickthru/redirect.cfm?JobCode=177093687>

## University of Maryland, Baltimore County (UMBC)

### *Department of Information Systems*

### *Multiple Open Rank Tenure-Track Faculty Positions*

The Department of Information Systems (IS) at UMBC invites applications for

three open rank tenure-track faculty positions starting August 2020. Successful candidates will complement and extend our current strengths in Artificial Intelligence, Data Science, Human-Centered Computing, Health Information Technology, and Software Engineering. Candidates with research interests cross-cutting multiple areas are particularly encouraged to apply. Strong candidates with a research emphasis in other areas may also be considered. Candidates must have earned a PhD in Information Systems, Computer Science, or related fields no later than August 2020.

All candidates are expected to establish a collaborative, externally funded, and nationally recognized research program; they are expected to contribute to teaching a variety of graduate and undergraduate courses offered by the department effectively. Candidates are expected to be innovative in terms of pedagogical methods, course content, and curriculum development, and be committed to advising, mentoring and supporting student success. All candidates should have experience in – or have the potential for – building an equitable and diverse scholarly environment in teaching, mentoring, research, life experiences, or service. Candidates for the Associate Professor rank should also have a strong record of research, teaching, service, and a sustained externally-funded research program. Candidates for the Full Professor rank should also demonstrate leadership in their field, hold an excellent academic record, and show a history of securing

external funds for multiple sizable research projects. We are particularly interested in receiving applications from individuals who are members of groups that historically have been under-represented in the professoriate.

The Department has 30 full-time faculty and over 1,600 students, including over 70 PhD students. The department offers undergraduate degrees in Information Systems and Business Technology Administration. Graduate degree programs, MS and PhD, are offered in both Information Systems and Human-Centered Computing, including an innovative online MS program in IS. In addition, the Department houses the Master's in Health Information Technology, which is a professional degree program. Our faculty are actively engaged in collaborative interdisciplinary research within and across departments and institutions, and three of our current faculty have received NSF CAREER awards. Further details can be found at <https://informationsystems.umbc.edu/>.

UMBC is a public research university that is leading the world in inclusive excellence in research and teaching. We are redefining how to teach and we are one of the most innovative universities in the nation (US News). To continue to support this goal, the Faculty Development Center provides excellent support such as classroom observation, collection and analysis of student feedback as well as regular workshops and pedagogical demonstrations. Our

research is bold, cross disciplinary, and leverages our location near to the hospitals in Baltimore, NIH, NASA, NSF, and the USGS. UMBC's strategic location in the Baltimore-Washington corridor puts us close to many high-tech companies as well. The 2018 Chronicle of Higher Education also named UMBC as one of the best colleges to work for, for the ninth year in a row. The department, college and UMBC are deeply committed to the success of all of our faculty. We have various mentoring programs such as "launch committees" to offer regular and structured mentorship for faculty to develop a thriving and successful research program and the Eminent Scholar mentoring program to build relationships with leaders in the field beyond UMBC. The campus is close to both energetic urban centers and family-friendly suburbs. Nearby cities such as Columbia and Ellicott City have been routinely ranked as top 10 best places to live in the US.

We especially welcome applications from candidates who are willing to contribute to the diversity mission of the university and the department. UMBC is a national model for diversity and inclusive excellence in STEM. Examples of these are our Meyerhoff Scholar programs (<http://meyerhoff.umbc.edu/>), the Center for Women in Technology (<http://cwit.umbc.edu>), and PROMISE: Maryland's AGEP and LSAMP Bridge to the Doctorate programs. Inclusive excellence is a hallmark of UMBC and a foundational value of our community. UMBC is the nation's #1 producer of African American

undergraduates who go on to complete an M.D./Ph.D. and #2 nationally for African American undergraduates who complete a STEM Ph.D. The IS department also has a diverse student body with 23% from under-represented minorities and half of our full-time faculty are female.

For full consideration, applications for the positions must be submitted as PDF files via Interfolio at <http://apply.interfolio.com/69677> by December 15, 2019.

A complete submission will consist of:

1. Cover letter
2. CV
3. One-page statement of teaching philosophy.
4. Two-page statement of research interests.
5. One-page statement of demonstrated commitment to diversity and inclusive excellence.
6. 6) Names and contact information of at least three references. Letters will be required later for short-listed candidates.

Candidates' experience will be evaluated commensurate to the rank to which they are applying. For inquiries, please email to [is\\_faculty\\_search\\_2019@umbc.edu](mailto:is_faculty_search_2019@umbc.edu). Review of applications will begin in December, 2019 and will continue until the positions are filled.

UMBC is an Affirmative Action/Equal Opportunity Employer and welcomes applications from minorities, women, veterans, and individuals with disabilities.

## University of Maryland College Park

*Full Professor or Associate Professor  
with Tenure*

*Department of Computer Science*

*Position #123708*

The Department of Computer Science at the University of Maryland, College Park, MD, USA is recruiting to fill multiple endowed positions by Capital One, with start dates on or after July 1, 2020. Outstanding mid-career and/or senior candidates are encouraged to apply. Successful applicants will also be considered for joint appointments with the University of Maryland Institute for Advanced Computer Studies (UMIACS), a multi-disciplinary research institute.

Exceptional candidates in Machine Learning, Data Science, and Cybersecurity are being sought. Applicants working at the boundary of computer science and related disciplines are also encouraged to apply and may be considered for joint positions with other departments or institutes on campus. A candidate should indicate in their cover letter if they might be interested in such a joint appointment.

The department is committed to building a diverse faculty pre-eminent in its missions of research, teaching, and service to the community, and it especially encourages applications from women and underrepresented minorities. In addition, candidates who have experience engaging with a diverse range of faculty, staff, and students and contributing to a climate of inclusivity are encouraged

to discuss their perspectives on these subjects in their application materials.

Interested candidates should apply online at <https://ejobs.umd.edu> in order to receive consideration. Search under Faculty for position #123708. Applications are accepted all year until all positions are filled. Applicants are strongly encouraged to have complete versions of their materials – including a cover letter, a curriculum vitae, research and teaching statements, and recommendation letters from at least four references – uploaded by December 31, 2019.

Candidates will be prompted when submitting the application to submit all information for their references. Questions can be directed to the faculty recruitment committee at: [capitaloneresearch@cs.umd.edu](mailto:capitaloneresearch@cs.umd.edu). The Department of Computer Science at the University of Maryland is consistently ranked among the top-15 nationally. It is one of the largest departments in the country, with approximately 55 full-time tenured and tenure-track faculty covering a wide variety of research areas and over 295 doctoral students drawn from top undergraduate programs nationally and internationally. In 2019, the department moved into its new state-of-the-art facility, the Brendan Iribe Center for Computer Science and Engineering. Additional information about the Department of Computer Science and UMIACS is available at <http://www.cs.umd.edu> and at <http://www.umiacs.umd.edu>. To learn more about the Iribe Center, please visit: <https://iribe.umd.edu/>.

The University of Maryland, College Park, was founded in 1856 and is the flagship institution in the University System of Maryland. Its 1,250 acre College Park campus is minutes away from Washington, D.C., the nexus of the nation's legislative, executive, and judicial centers. This unique proximity to business and technology leaders, federal departments and agencies, and a myriad of research organizations, embassies, think tanks, cultural centers, and non-profit organizations offers unique opportunities for engagement for faculty and students.

The University of Maryland, College Park, an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

## University of Memphis

*Department of Computer Science*

*Sparks Family Chair of Excellence in Smart & Autonomous Systems*

The Department of Computer Science at the University of Memphis is seeking outstanding applicants for a state-endowed Chair of Excellence position beginning in Fall 2020. The position is available at the Full Professor or at the Associate Professor rank for a rising star. The endowed position provides unrestricted research funds. The salary is highly competitive and dependent upon qualifications.

In the past decade, the Department of Computer Science successfully doubled its enrollment and annual research expenditures, laying the foundation for the next phase of its development in pursuit of excellence. The department's vision is to become an internationally recognized School of Computer Science with high-impact interdisciplinary research and high quality graduates, contributing to the social and economic development of our community and nation.

Successful candidate is expected to accelerate the department's research in smart and autonomous systems (e.g., smart health, smart learning, networked and secure systems), that has been supported by \$50+ million in multidisciplinary federal grants in collaboration with 20 partner universities. Applicants should have a strong record of scholarship and funded research who can lead large-scale externally-sponsored

research programs of high societal impact via interdisciplinary collaborations. Exceptionally qualified candidates in any area of computing that can make significant contributions to smart and autonomous systems (including edge computing, artificial intelligence, security & privacy, safety & fairness, HCI, software engineering, and CS education) are invited to apply. Candidates from minority and underrepresented groups are highly encouraged to apply. Applicants should hold a PhD in Computer Science or a related discipline.

The Department of Computer Science ([www.memphis.edu/cs](http://www.memphis.edu/cs)) offers B.S., M.S., and Ph.D. programs as well as graduate certificates in Data Science and Information Assurance. The Department has 20 faculty and more than 500 students (including 56 doctoral students). The department had approximately \$9 million research expenditures in the last fiscal year and has been ranked 55th among CS departments with federally funded research. CS faculty lead the NIH-funded Big Data "Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K)," nationally-designated "Center for Information Assurance" (CfIA), and NSF-funded Learner Data Institute.

Well known as America's distribution hub, Memphis was ranked as America's 6th best city for jobs by Glassdoor in 2017. Memphis metropolitan area, with a population of 1.3 million, a vibrant culture, a pleasant climate with an average annual temperature of 63 degrees, no state income taxes, very low cost of

living, excellent healthcare, and a world-class research hospital makes for a very desirable place to live.

Screening of applications begins immediately upon receipt. Application materials received by January 27, 2020, will be given full consideration, but applications will be accepted until the search is completed.

To apply, please visit <https://workforum.memphis.edu/postings/24443>. Include a cover letter, curriculum vitae, teaching and research statements, and three letters of reference. Inquiries may be directed to Corrinne O'Connor ([cconnor2@memphis.edu](mailto:cconnor2@memphis.edu)).

A background check will be required for employment. The University of Memphis is an Equal Opportunity/Equal Access/Affirmative Action employer committed to achieving a diverse workforce.

## University of Memphis

*Assistant Professor Tenure Track*

The Department of Computer Science at the University of Memphis is seeking candidates for Assistant Professor position(s) beginning Fall 2020. Exceptionally qualified candidates in all areas of computer science are invited, while candidates with core expertise in emerging areas of edge computing, machine learning, and software engineering are particularly encouraged to apply. Successful candidates are expected to develop externally sponsored research programs, lead or participate

in collaborative research projects within Computer Science and beyond, teach both undergraduate and graduate courses and provide academic advising to students at all levels. Candidates from minority and underrepresented groups are highly encouraged to apply.

Applicants should hold a PhD in Computer Science, or related discipline, and be committed to excellence in both research and teaching. Salary is highly competitive and dependent upon qualifications.

The Department of Computer Science ([www.memphis.edu/cs](http://www.memphis.edu/cs)) offers B.S., M.S., and Ph.D. programs as well as graduate certificates in Data Science and Information Assurance. The Department has been ranked 55th among CS departments with federally funded research. The Department regularly engages in large-scale multi-university collaborations across the nation. For example, CS faculty lead the NIH-funded Big Data “Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K)” and the “Center for Information Assurance” (CfIA). In addition, CS faculty work closely with multidisciplinary centers at the university such as the “Institute for Intelligent Systems” (IIS).

Well known as America’s distribution hub, Memphis was ranked as America’s 6th best city for jobs by Glassdoor in 2017. Memphis metropolitan area has a population of 1.3 million. It boasts a vibrant culture and has a pleasant climate with an average temperature of 63 degrees.

Screening of applications begins immediately. For full consideration,

application materials should be received by December 1, 2019. However, applications will be accepted until the search is completed.

To apply, please visit <https://workforum.memphis.edu/postings/23648>. Include a cover letter, curriculum vitae, teaching and research statements, and three letters of recommendation. Direct all inquiries to Corinne OConnor ([cconnor2@memphis.edu](mailto:cconnor2@memphis.edu)).

A background check will be required for employment. The University of Memphis is an Equal Opportunity/Equal Access/Affirmative Action employer committed to achieving a diverse workforce.

## University of Michigan

### *Lecturer in Data Science*

The University of Michigan School of Information (UMSI) seeks qualified individuals as Lecturer III to provide instruction in Python programming and data science skills and techniques to students in our new Master of Applied Data Science online degree and in our other academic programs. We expect the applicant to support courses, such as data manipulation, exploratory data analysis, data mining, and natural language processing. Students in the online degree program take four-week classes on the Coursera platform. You will act either as the instructor of record or work with the instructor of record and be the main instructional and student support, and participate in the continuous process of program improvement. You

may be assigned course development responsibilities. Given the online degree program structure, there will be a variety of classes that change from month to month. Course assignments are made in advance giving teaching faculty ample time to prepare. You will work collaboratively with lead instructors, other instructional team members, and UMSI staff to ensure that students receive an excellent education and are aware of support services in the larger UM and UMSI communities. You will continuously learn about the courses and future offerings, the program, and effective online pedagogy.

For more information and to apply please visit [https://careers.umich.edu/job\\_detail/182810/lecturer\\_in\\_data\\_science](https://careers.umich.edu/job_detail/182810/lecturer_in_data_science)

## University of Nevada, Reno

### *Assistant Professor in Cybersecurity and Network Systems*

The University of Nevada (UNR) has a job opening for an assistant professor in Cybersecurity and Network Systems. For more information about UNR, the position and the application process, please visit us at: <https://www.cse.unr.edu/R0118509>

## University of New Haven

### *Assistant Professor or Lecturer in Cybersecurity and Computer Science*

The University of New Haven invites applications for potentially multiple positions including tenure track assistant professor

or lecturer in cybersecurity and computer science. For full description [click here](#).

## University of New Haven

### *Assistant Professor Computer Science*

The University of New Haven invites applications for Tenure Track Assistant Professor in Computer Science for August 2020.

For a full description click [here](#).

## University of North Carolina at Charlotte

### *Faculty Positions, Department of Computer Science*

We seek candidates for multiple assistant / associate tenure-track positions. Areas of interest include: Computing Systems (computer architecture, artificial intelligence, cyber-physical systems, and distributed systems); Data Science (data curation, deep learning, data mining, data provenance, and computing theory), and Artificial Intelligence Systems (human-AI collaboration, machine learning, robotics, and computer vision).

Anticipated start date is fall 2020. A detailed description of all positions and the application process are available at: <https://jobs.uncc.edu/postings/30035>.

UNC Charlotte is North Carolina's urban research university. The Department, home to over 2,000 students in B.S., M.S. and Ph.D. programs, seeks innovative, collegial candidates with high ethical

standards, who are committed to diversity, accessibility, and inclusion.

As an EOE/AA employer and an ADVANCE and Title III Institution that strives to create an academic climate in which the dignity of all individuals is respected and maintained, UNC Charlotte encourages applications from all underrepresented groups.

## University of Pittsburgh

### *Teaching Faculty Positions*

The School of Computing and Information at the University of Pittsburgh is conducting a search for teaching faculty in all school departments: Computer Science (CS), Informatics and Networked Systems (DINS) and Information Culture and Data Stewardship (ICDS). The School of Computing and Information is committed to hiring the next generation of faculty who will teach both foundational and elective courses that prepare students for both careers in industry and admission to top graduate programs in the various disciplines. The School of Computing and Information has a polymathic approach to education and is looking especially for faculty who espouse this approach. As we build and expand the school, it is also crucial that we continue to strengthen our leadership in addressing **underrepresentation by fostering a diverse, inclusive, and equitable environment for students, faculty, and staff.**

### **About the Position**

At the School of Computing and Information, we pride ourselves on supporting and recognizing our teaching faculty. Our positions are long-term, career-oriented and renewable, and have established paths for promotion. Teaching faculty positions within the school include assistant professor, associate professor, full professor and professor of practice. These positions offer exciting and long-term opportunities to teach and develop novel undergraduate and graduate programs in computer science, information science, library science, and networked systems, including the rethinking of curricula to reflect emerging concepts, new skills, and the integration of computing and information into other disciplines. We strongly encourage scholars to apply who have experience working with diverse students and have made an investment in embedding inclusion in their teaching. Individuals filling these openings will have a unique opportunity to develop inclusive curricula foundational to an intellectually vibrant and successful academic community.

We are especially looking for candidates whose academic and professional backgrounds include expertise in one or more of the following areas: Cloud Computing, Information Retrieval, Text Mining, Networking, Cybersecurity, Computer Systems, Computer Theory, Computer Algorithms, Health Informatics, Artificial Intelligence, Data Science, Information Technology and Society, Data Curation and Digital Humanities.

## About the School of Computing and Information

The University of Pittsburgh is ranked among the top 20 public colleges and universities in the 2020 U.S. News & World Report Best Colleges rankings.

The School of Computing and Information (SCI) is the newest school at the University of Pittsburgh, and is in a period of growth. SCI currently offers undergraduate degrees in Computer Science, Information Science, Computational Biology [in partnership with the Dietrich School] and Digital Narrative and Interactive Design [in partnership with the Dietrich School]. The last two majors are newly developed and fit with the school's overarching theme of polymathic education for our students. Several additional undergraduate polymathic majors are also currently in development. SCI also has several graduate programs, including the MS and PhD degrees in Computer Science and Information Science, and the MLIS (Master of Library and Information Science) degree.

The School of Computing and Information also has recently launched a Professional Institute that provides specialized education to working professionals in information technology fields (see: <https://www.sciprofessional.pitt.edu>). Furthermore, in order to support our numerous interdisciplinary research programs, we have created the Modeling and Managing Complicated Systems (momacs) Institute (see: <https://www.momacs.pitt.edu>). SCI faculty have the opportunity to be involved in both of these endeavors.

## About Pittsburgh

Pittsburgh is a thriving metropolis with small-city charm and has received national and international accolades for the quality of life, amenities, and livability over the last several years. Pittsburgh is recognized for being:

- Most livable in the Continental US – The Economist
- 17th Most Affordable City – Forbes Magazine
- The New Cool – Forbes
- A “Best Place to Live” – Time

To learn more about Pitt's cool factor visit <https://www.coolpgh.pitt.edu/live>

## Minimal Qualifications

Applicants for assistant, associate and full professor must hold a PhD in Computer Science, Information Science, Library Science, or a related area, by the start of the position.

Applicants for professor of practice must hold a Masters in Computer Science, Information Science, Library Science, **or a related area.**  
**In addition, candidates should have 5 to 10 years of work experience.**

## Application Process

Individuals interested in these openings may apply at (<https://sci.pitt.edu/r/as>). Please provide the following

- A cover letter that reflects on your interest and alignment to SCI's teaching mission
- A curriculum vitae

- A teaching statement describing your teaching philosophy
- A diversity statement that highlights your experiences with diversity in teaching as well as service, and your potential to support SCI's commitment to building and fostering an inclusive environment
- The names and contact information for at least three recommenders for professor of practice and assistant professor level, and six recommenders for associate or full professor levels
- Teaching evaluations if available

Application review will begin immediately and applications will be accepted until all positions are filled. Candidates are encouraged to apply as soon as possible. We anticipate that individuals will be invited to interview on campus starting in January 2020. For best consideration, please apply by January 15, 2020. The anticipated start date is September 1, 2020.

Questions about the search and or application status should be mailed to [sci-recruit@pitt.edu](mailto:sci-recruit@pitt.edu).

The University of Pittsburgh is an affirmative action and equal opportunity employer and does not discriminate on the basis of age, color, disability, gender, gender identity, marital status, national or ethnic origin, race, religion, sexual orientation, or veteran status.

## University of Pittsburgh

### Tenure Track Positions

The School of Computing and Information (SCI), founded in 2017, aims to create and harness data-driven technology, science, and expertise to improve the security, performance, and understanding of complicated, interacting natural, social, and engineered systems.

SCI has multiple tenure-track positions available in all areas at the Assistant Professor, Associate Professor, and Full Professor ranks. We seek individuals who can think and work across boundaries and who see themselves as leaders, dynamic, and cross-disciplinary scholars. We are motivated to bring together scholars who are advancing computing and information areas with experts in other fields, to collaboratively address complex challenges, and to contribute to the school's mission of modeling and managing complicated, interacting systems. Our recent hires have included transdisciplinary scholars in computational social science and medical imaging analysis for neurodegenerative diseases.

Advancement of SCI's mission requires not only transdisciplinary scholars but also expertise in traditional areas of computer, information, and library science, and we encourage applications from individuals working across the entire spectrum of research in these disciplines, including but not limited to artificial intelligence; machine learning; Internet of Things; cognitive science; social informatics; data management; data visualization;

digital equity; cloud and high-performance computing; cyber-physical systems; security and privacy; computational modeling, networking and others. Our recent hires in these areas have expertise in high performance computing, resilient networks, distributed systems and cyber-physical systems, and human computer interaction.

As part of our commitment to excellence, the School of Computing and Information admits students directly to their four-year undergraduate programs, and the faculty have created multiple interdisciplinary polymathic academic programs (undergraduate and graduate levels), in addition to the newly created Professional Institute that provides specialized education to working professionals in information technology fields. The School has also created the Modeling and Managing Complicated Systems (momacs) Institute to translate the science and technology of modeling and managing complicated, interacting systems into practice to address today's most pressing challenges. SCI has numerous connections to centers, institutions, and companies in the region, including the University of Pittsburgh School of Medicine, the Center for Causal Discovery, the Center for Energy, the Center for Governance and Markets, the Pittsburgh Supercomputing Center, the Center for the Neural Basis of Cognition (Pitt/CMU), the City of Pittsburgh, Google, Uber, Oculus, Argo AI, and many others. Through these connections, there are ample opportunities to collaborate broadly and build multi-disciplinary research teams of the highest caliber. As we build and expand these initiatives,

it is crucial that we continue and strengthen our leadership in addressing underrepresentation by fostering a diverse, inclusive, and equitable environment for students, faculty, and staff. Additionally, Pitt has policies to promote a healthy work-life balance and programs to meet the needs of two career couples.

The University of Pittsburgh is a top ranked public research university located in the heart of the city of Pittsburgh. Pittsburgh is a vibrant hub of education, technology, and medicine, with many startups and established companies throughout the region. The region offers an exceptionally high quality of life, with low cost housing, excellent secondary schools, abundant outdoor activities, and rich cultural attractions well beyond other cities of its size. The Wall Street Journal/Times Higher Education recently ranked Pitt as the top public university in the Northeast, and Pitt is ranked among the top 20 public colleges and universities in the 2020 U.S. News & World Report Best Colleges rankings.

### Minimum Qualifications

- Hold a PhD in a computing or information related field by the start of the appointment.
- Research outcomes in relevant areas, published in respected peer-reviewed academic conferences and/or journals.
- Promise for high-quality teaching, command of subject matter, and ability to organize and convey material effectively to students.

- Willingness and interest to participate in departmental, school and professional activities.
- In addition, applicants at the associate level are required to show:
- Evidence of a successful research program, including research funding, publications in highly-rated scholarly venues, invitations to present at the national and international level, and the ability to advise graduate students; accomplishments as an educator and evidence for continuous growth, including teaching strategies; and a commitment to professional activities and service to their institution and the wider community.
- Applicant at the professor level are required to further have:
- A distinguished record of academic achievements with national or international recognition; innovation in approaches to learning and incorporation of new educational methods and technologies; leadership that extends beyond teaching and research to embrace the priorities of SCI, the university and the wider research community.

Individuals interested in these openings may apply at <https://sci.pitt.edu/r/ts/>. Please provide the following to complete your application:

- A cover letter reflecting on your interest and alignment with SCI's mission
- A curriculum vitae
- A research statement describing your current and future research

- A teaching statement describing your teaching philosophy
- A statement describing your experiences with diversity in your research, teaching, or service, and your potential to support SCI's commitment to building and fostering an inclusive environment
- The names and contact information for at least three recommenders for assistant professor level, and six recommenders for associate or full professor levels

Application review will begin immediately and applications will be accepted until all positions are filled. Candidates are encouraged to apply as soon as possible. We anticipate that individuals will be invited to interview on campus starting in January 2020. For best consideration, please apply by December 31, 2019. The anticipated start date is September 1, 2020. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity, EOE, including disability/vets.

Questions about the search and/or application status should be emailed to [sci-recruit@pitt.edu](mailto:sci-recruit@pitt.edu). Nominations and inquiries for senior openings may be sent in confidence to the Search Committee Chair, Professor David Tipper, Department of Informatics and Networked Systems, [dtipper@pitt.edu](mailto:dtipper@pitt.edu)

## University of South Carolina

*College of Engineering and Computing (CEC)*

*Artificial Intelligence Institute*

*Multiple Open-Rank Faculty Positions*

The Artificial Intelligence (AI) Institute (<http://ai.sc.edu>) is a new university-wide institute engaged in core AI research, as well as high-impact interdisciplinary research involving AI implementations and applications. It is an outcome of the university's Presidential Excellence Initiative, which seeks to bring national prominence to our college and university through AI research and its economic impact. We seek multiple tenured and tenure-track faculty members at all ranks in core-AI and in interdisciplinary fields at the intersection with engineering disciplines.

- Applicant is required to possess a Ph.D. degree in computer science or a closely related field by the beginning date of employment and have a demonstrated superior record of research accomplishments.
- The successful applicant is expected to develop internationally recognized, externally-funded research programs that broaden the institution's strengths, leverage interdisciplinary collaborations (<http://bit.ly/Allnst>), and align with vital cross-cutting research themes (eg. smart & connected communities, healthcare transformations, and agile manufacturing).

Research areas of special interest include:

- Human in the loop or knowledge-enhanced AI, deep learning/MMML, NLP, QA/conversational AI, brain-inspired computing;
- AI and Big data (incl. sensor, social, health, biological);
- AI and computer vision, robotics, CPS, human-computer interaction, autonomous vehicles, etc.

The faculty will have an appointment with the new AI Institute with a tenure-track or tenured appointment in CSE (<http://cse.sc.edu>) or another department in the college (<http://cec.sc.edu>). CEC is ranked among top 100 engineering colleges in the nation, and has many NSF CAREER Award recipients (e.g., CSE has 10). Teaching load is very attractive. The AI Institute has exceptional infrastructure and resources including 20,000 sq. ft. space.

Review of applications will begin November 1, 2019 and continue until positions are filled. Expected start date January 1, 2020 or later. All applicants must apply online at <http://uscjobs.sc.edu/postings/67450>. Qualified candidates must include: (1) letter of intent, (2) curriculum vitae, (3) concise description of research plans, (4) teaching plan, and (5) names and contact information of 3 references for a junior faculty rank and 5 references for a senior faculty rank (references can be contacted later in the process for a senior position). For questions or further information, please contact Dr. Amit Sheth ([amit@sc.edu](mailto:amit@sc.edu)).

The University of South Carolina does not discriminate in educational or employment

opportunities on the basis of race, sex, gender, age, color, religion, national origin, disability, sexual orientation, genetics, protected veteran status, pregnancy, childbirth or related medical conditions.

## University of South Dakota

### *Assistant Professor Computer Science*

The Department of Computer Science at The University of South Dakota (USD) invites applications for one tenure-track position at the Assistant Professor level.

For more information and to apply, please visit <https://yourfuture.sdbor.edu>

## University of Texas at Dallas

### *Computer Science Faculty*

The Department of Computer Science at The University of Texas at Dallas invites applications from outstanding applicants for multiple tenure-system positions in Computer Science. Candidates in all areas of computer science will be considered, though the department is particularly interested in virtual/augmented reality, human-computer interaction, data science, cybersecurity, AI, quantum computing, and IoT. Candidates must have a PhD degree in Computer Science, Software Engineering, Computer Engineering or equivalent. The positions are open for applicants at all ranks. Candidates for senior positions must have a distinguished record of research, publication, teaching, and service, and demonstrated leadership

ability in developing and expanding (funded) research programs. An endowed chair may be available for highly qualified senior candidates. Junior candidates must show outstanding promise.

The department offers BS, MS, and PhD degrees both in Computer Science and Software Engineering. It also offers degrees in Data Science, Computer Engineering, and Telecommunications Engineering that are jointly administered with other departments. Currently, the department has a total of 50 tenure-system faculty members and 44 full-time senior lecturers. The department is housed in a spacious 150,000 square feet facility and has excellent computing equipment and support. In areas such as natural language processing/AI, software engineering and embedded systems, the department ranks within the top seven on [csrankings.org](http://csrankings.org). The department also houses a number of centers and institutes, particularly in the areas of cybersecurity, human language technology, and net-centric software, and applied AI and machine learning.

The university is located in the most attractive part of the Dallas metropolitan area. There are over 1,000 high-tech companies within a few miles of the campus, including Texas Instruments, Walmart Labs, AT&T, Fujitsu, Raytheon, Rockwell Collins, and Cisco. The DFW metroplex has one of the highest concentrations of high-tech jobs in the nation. Opportunities for joint university-industry research projects are excellent. The department averages approximately

\$9 million in extramural research funding annually, ranking 37th in the ASEE (2016) survey of research expenditures. The University and the State of Texas are also making considerable investment in commercialization of technology; a start-up business incubation center has been operational at UT Dallas since 2011.

Applicants should upload a letter of interest; curriculum vitae; statements of research interest and teaching philosophy/experience; teaching evaluations (if available); and the full contact information for at least three academic or professional references via the online application at <http://jobs.utdallas.edu/postings/13359>

For more information, contact Dr. Gopal Gupta, Department Head, via email ([gupta@utdallas.edu](mailto:gupta@utdallas.edu)) or send e-mail to [cs-search@utdallas.edu](mailto:cs-search@utdallas.edu) or view the web page at <http://cs.utdallas.edu>

The search committee will begin evaluating applications on January 15, 2020. Applications received on or before January 15 will get the highest preference.

The University of Texas at Dallas is an equal opportunity/affirmative action employer (M/F/D/V).

## University of Texas Rio Grande Valley

### *Assistant Professor of Computer Science*

The Department of Computer Science at the University of Texas Rio Grande Valley (UTRGV) invites applications for two

Tenure-Track Assistant Professor faculty positions in Computer Science to begin in Fall 2020.

Please see the full descriptions of these positions at the following links: <https://careers.utrgv.edu/postings/23120> and <https://careers.utrgv.edu/postings/23073>.

## University of Toronto

### *Associate Professor/Professor - Artificial Intelligence/ Data Science/ Information Engineering*

The Department of Mechanical & Industrial Engineering at the University of Toronto invites applications for one full-time, tenure stream faculty position in the area of data-driven Industrial Engineering at the rank of Associate Professor or Professor, starting July 1, 2020, or shortly thereafter.

Candidates must have a PhD in industrial engineering, computer science, or a related discipline. Candidates will have an established international reputation in the development and application of Artificial Intelligence (AI) and Machine Learning (ML) methodologies for Information Engineering. Candidates will be expected to sustain and lead innovative and independent research at the highest international level and to maintain an outstanding, competitive, and externally funded research program. The successful candidate will have previous experience in graduate student supervision, and undergraduate teaching in both AI/ML and Information Engineering. It is preferred that candidates have an

undergraduate degree in engineering and to be eligible for registration as a Professional Engineer.

We seek candidates whose research and teaching interests complement and strengthen our existing departmental strengths. The successful candidate will be involved in undergraduate and graduate teaching, research, and departmental service. Evidence of an exceptional record of excellence in research and teaching are required.

The successful candidate must provide evidence of excellence in research through an established international reputation, as demonstrated by leadership in the academic community, editorships, research output, awards and accolades. Excellence in research will be evidenced primarily by sustained contributions and the quality of publications in top-ranked and field relevant journals and conferences, the submitted research statement, strong letters of reference from referees of high international standing, and noteworthy activities that contribute to the visibility and prominence of the discipline.

Excellence in teaching should be demonstrated by a strong statement of teaching philosophy, sample course syllabi, excellent teaching evaluations, strong endorsements from referees, and the teaching dossier submitted as part of the application.

Salary will be commensurate with qualifications and experience.

Established in 1827, the University of Toronto is Canada's largest university, recognized as a global leader in research and teaching. U of T's distinguished faculty, institutional record of groundbreaking scholarship and wealth of innovative academic opportunities continually attract outstanding students and academics from around the world. The Department of Mechanical & Industrial Engineering at the University of Toronto is home to the top mechanical and industrial engineering programs in Canada. We foster a world-class environment that excels in teaching, learning and research.

All qualified candidates are invited to apply online by clicking on the link below. Applications must include a cover letter, curriculum vitae, teaching dossier (including a statement of teaching philosophy, sample syllabi, and teaching evaluations), a substantial article-length writing sample, and a statement outlining current and future research interests. If you have questions about this position, please contact [chair@mie.utoronto.ca](mailto:chair@mie.utoronto.ca).

Applicants must also ask three referees to send letters (on letterhead and signed) directly to the department via e-mail to [chair@mie.utoronto.ca](mailto:chair@mie.utoronto.ca). Reference letters must be received by the closing date.

All application materials, including reference letters, must be submitted by the closing date of January 7, 2020.

Submission guidelines can be found at <http://uoft.me/how-to-apply>. We recommend combining attached

documents into one or two files in PDF or MS Word format.

For more information on the University of Toronto, and the Department of Mechanical & Industrial Engineering, please visit our website: <http://www.mie.utoronto.ca>.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see <http://uoft.me/UP>.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## University of Toronto

### *Assistant Professor - Artificial Intelligence/ Data Science/ Information Engineering*

The Department of Mechanical & Industrial Engineering at the University of Toronto invites applications for one full-time, tenure stream faculty position in the area

of data-driven Industrial Engineering at the rank of Assistant Professor, starting July 1, 2020, or shortly thereafter.

Candidates must have a PhD in industrial engineering, computer science, or a related discipline by date of appointment or shortly thereafter. We seek candidates who demonstrate research excellence in the development and application of Artificial Intelligence (AI) and Machine Learning (ML) methodologies for Information Engineering. An emphasis will be placed on the demonstrated ability to contribute to international-calibre scholarship, graduate student supervision, and undergraduate teaching in both AI/ML and Information Engineering. It is preferred that candidates have an undergraduate degree in engineering and to be eligible for registration as a Professional Engineer.

We seek candidates whose research and teaching interests complement and strengthen our existing departmental strengths. The successful candidate will be expected to pursue innovative and independent research at the highest international level and to establish an outstanding, competitive, and externally funded research program. The successful candidate will be involved in undergraduate and graduate teaching, research, and departmental service. Evidence of excellence in research and teaching are required.

The successful candidate must provide evidence of excellence in research, primarily by the quality of published papers in top-ranked and field relevant

journals and conferences, or a research pipeline that is at high international levels, a submitted research statement, and strong letters of reference from referees of high standing. Further evidence of research excellence can be demonstrated by participation in top conferences, awards and accolades, and presenting research at other highly ranked schools.

Excellence in teaching should be demonstrated by a strong statement of teaching philosophy, excellent teaching evaluations, strong endorsements from referees, and a teaching dossier submitted as part of the application.

Salary will be commensurate with qualifications and experience.

Established in 1827, the University of Toronto is Canada's largest university, recognized as a global leader in research and teaching. U of T's distinguished faculty, institutional record of groundbreaking scholarship and wealth of innovative academic opportunities continually attract outstanding students and academics from around the world. The Department of Mechanical & Industrial Engineering at the University of Toronto is home to the top mechanical and industrial engineering programs in Canada. We foster a world-class environment that excels in teaching, learning and research.

All qualified candidates are invited to apply online by clicking on the link below. Applications must include a cover letter, curriculum vitae, teaching dossier (including a statement of teaching philosophy, sample syllabi, and teaching

evaluations), an article-length writing sample, and a statement outlining current and future research interests. If you have questions about this position, please contact [chair@mie.utoronto.ca](mailto:chair@mie.utoronto.ca).

Applicants must also ask three referees to send letters (on letterhead and signed) directly to the department via e-mail to [chair@mie.utoronto.ca](mailto:chair@mie.utoronto.ca). Reference letters must be received by the closing date.

All application materials, including reference letters, must be submitted by the closing date of January 7, 2020.

Submission guidelines can be found at: <http://uoft.me/how-to-apply>. We recommend combining attached documents into one or two files in PDF or MS Word format.

For more information on the University of Toronto, and the Department of Mechanical & Industrial Engineering, please visit our website: <http://www.mie.utoronto.ca>.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources staff. Results will

be aggregated for institutional planning purposes. For more information, please see <http://uoft.me/UP>.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## University of Toronto

### *Assistant Professor – Teaching Stream – Data and Analytics*

The Department of Mechanical & Industrial Engineering at the University of Toronto invites applications for a full-time teaching stream faculty appointment at the rank of Assistant Professor, Teaching Stream, in the general areas of Data Science, Machine Learning, and Big Data Analytics, including the mathematical, statistical, and computational foundations of these disciplines. The appointment will commence on July 1, 2020, or shortly thereafter.

Applicants must have a Ph.D. in Engineering, Computer Science, Statistics, or a related engineering or science field, at the time of appointment or soon after. Applicants must have, or be eligible for registration as a Professional Engineer in Canada. We seek candidates whose teaching interests complement and strengthen our existing departmental strengths.

The successful candidate will have demonstrated excellence in teaching and pedagogical inquiry, including in the development and delivery of undergraduate and graduate courses, curriculum development, and supervision

of student design projects. This will be demonstrated by strong communication skills evident throughout the application process; a compelling statement of teaching submitted as part of the application highlighting areas of interest, awards, accomplishments and teaching philosophy; sample course syllabi and materials; and teaching evaluations, as well as strong letters of reference from referees of high standing endorsing excellent teaching and commitment to excellent pedagogical practices and teaching innovation.

Salary will be commensurate with qualifications and experience.

Established in 1827, the University of Toronto is Canada's largest university, recognized as a global leader in research and teaching. U of T's distinguished faculty, institutional record of groundbreaking scholarship and wealth of innovative academic opportunities continually attract outstanding students and academics from around the world. The Department of Mechanical & Industrial Engineering at the University of Toronto is home to the top mechanical and industrial engineering programs in Canada. We foster a world-class environment that excels in teaching, learning and research.

All qualified candidates are invited to apply by clicking on the link below. Applications must include a cover letter, curriculum vitae, and teaching dossier (including a statement of teaching philosophy, sample syllabi, and teaching

evaluations). If you have questions about this position, please contact [chair@mie.utoronto.ca](mailto:chair@mie.utoronto.ca). All application materials must be submitted online by the closing date of February 3, 2020.

Submission guidelines can be found at: <http://uoft.me/how-to-apply>. We recommend combining attached documents into one or two files in PDF or MS Word format.

Applicants must also ask three referees to send letters (on letterhead and signed), including at least one primarily addressing the candidate's teaching, directly to the department via e-mail to [chair@mie.utoronto.ca](mailto:chair@mie.utoronto.ca). Reference letters must be received by the closing date of February 3, 2020.

For more information on the University of Toronto, and the Department of Mechanical & Industrial Engineering, please visit our website: <http://www.mie.utoronto.ca>.

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As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and

cannot be accessed by search committees or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see <http://uoft.me/UP>.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## University of Toronto

### *Multiple Tenure-Stream positions*

The Department of Computer Science at the University of Toronto invites applications for multiple tenure-stream positions at various ranks, starting July 1, 2020.

Areas of interest include, in the broadest possible sense:

- Interdisciplinary Human-Computer Interaction
- Deep Learning
- Computational Medicine (joint position with Department of Laboratory Medicine and Pathobiology)
- Deep Learning (joint with the Department of Electrical and Computer Engineering)
- Quantum Computing (joint position with the Department of Physics)

In addition, the Department of Mathematical and Computational Sciences, University of Toronto Mississauga (UTM) is hiring for one position at the rank of Assistant Professor in

- Robotics

For all positions, we are especially interested in exceptional candidates who transcend traditional disciplines and complement our existing strengths.

The University of Toronto is an international leader in research and education in computer science and in the cognate areas we are jointly searching with. Successful candidates are expected to pursue innovative research at the highest international level; to establish a strong, externally funded independent research program; to have a strong commitment to undergraduate and graduate teaching; and to contribute to the enrichment of both undergraduate and graduate programs in the department(s).

All appointments will begin on July 1, 2020. Candidates should have a Ph.D. in the relevant field(s) as described in the individual ads posted at [www.cs.toronto.edu](http://www.cs.toronto.edu) by the date of appointment or shortly thereafter.

Evidence of excellence in research and teaching at the highest international levels is required. Excellence in research will be evidenced primarily by publications in top ranked field relevant journals, awards and accolades, presentations at significant conferences, and strong reference letters by referees of top international stature. Teaching excellence will be demonstrated by awards and accolades, teaching accomplishments as well as strong endorsements by referees.

Salaries will be commensurate with qualifications and experience, and is competitive with our North American peers.

Applicants should apply online [AcademicJobsOnline](http://AcademicJobsOnline), and include a curriculum vitae, a list of publications, research and teaching statements. Applicants should also arrange to have at least three letters of reference uploaded through [AcademicJobsOnline](http://AcademicJobsOnline) directly by the writers. Review of applications will begin on January 7, 2020. Applicants should endeavor to have all materials submitted by then, however applications may be considered until January 30, 2020.

For more information about the Department of Computer Science, see our website [www.cs.toronto.edu](http://www.cs.toronto.edu) or contact Sara Burns at [recruit@cs.toronto.edu](mailto:recruit@cs.toronto.edu).

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## University of Toronto Mississauga

### *Assistant Professor, Teaching Stream - Computer Science*

The Department of Mathematical and Computational Sciences at the University of Toronto Mississauga (UTM) invites

applications for up to two teaching-stream appointments in Computer Science. The appointments will be at the rank of Assistant Professor, Teaching Stream, and will commence on July 1, 2020, or shortly thereafter.

We seek candidates who have a record of excellent teaching and interest in establishing a long-term teaching career with the Department. Candidates should have teaching interests that complement and enhance existing departmental strengths (see <https://www.utm.utoronto.ca/math-cs-stats/home>), such as existing clusters in robotics or computer security. A Master's degree in Computer Science or related discipline by the time of the appointment is required. A Ph.D. is preferred.

Competitive candidates will have teaching expertise in a degree granting program at the undergraduate program level; a demonstrated commitment to excellent pedagogical practices; and strong organizational, interpersonal, and communication skills. Preference will be given to candidates who have developed curriculum for new and existing courses; have engaged with students both in and out of a course setting (for example, running seminars, contests, workshops, and engaging with student-run initiatives); have contributed to departmental administration (for example, through course coordination or by managing TAs); and have supervised undergraduate or graduate research projects.

Salary will be commensurate with qualifications and experience.

All qualified candidates are invited to apply through [AcademicJobsOnline](https://academicjobsonline.org/ajojobs/15573) at <https://academicjobsonline.org/ajojobs/15573>. Applicants must submit a cover letter, a current curriculum vitae, a statement of career goals, and a teaching dossier that includes a teaching philosophy statement, course evaluations, and selected course materials. Applicants must also arrange to have at least three letters of recommendation (on letterhead, dated and signed) addressing teaching, uploaded through [AcademicJobsOnline](https://academicjobsonline.org/ajojobs/15573) directly by the writers. The letters must be uploaded by the closing date.

All application materials, including reference letters, must be received by January 6, 2020. For enquiries, please contact Julia Martyn, Chair's Assistant, at [julia.martyn@utoronto.ca](mailto:julia.martyn@utoronto.ca).

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons/ persons of colour, women, Indigenous/ Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## University of Toronto Scarborough

*Assistant Professor, Contractually Limited  
Term – Computer Science*

The Department of Computer and Mathematical Sciences, University of Toronto Scarborough (UTSC) invites applications for a three-year contractually limited term appointment in Computer Science as the Mendelzon Visiting Assistant Professor, to begin on July 1, 2020, and will end on June 30, 2023.

Applicants must have a Ph.D. in Computer Science or a related field by the date of appointment or shortly thereafter, and must demonstrate excellence in research and teaching. We seek candidates whose research and teaching interests complement and strengthen our existing departmental strengths (<https://www.utoronto.ca/cms/faculty-of-computer-science>). The successful candidate will be expected to pursue innovative and independent research at the highest international level and to establish an outstanding, competitive, and externally funded research program. Excellence in research will be demonstrated by publications in leading computer science journals and/or conferences, or forthcoming publications meeting high international level, presentations at significant computer science conferences, a strong research statement submitted as part of the application, awards and accolades, and strong endorsements by referees of top international stature. Evidence of excellence in teaching will be demonstrated by teaching accomplishments, the teaching dossier submitted as part of the application including a strong teaching statement, sample course syllabi, and the

teaching evaluations, as well as strong endorsements from referees. Candidates are also expected to show evidence of a commitment to equity, diversity, inclusion, and the promotion of a respectful and collegial learning and working environment demonstrated through the application materials.

The University of Toronto is an international leader in Computer Science research and education. The successful candidate for this position will be expected to contribute to the enrichment of academic programs at the University's Scarborough campus. More information about the Department of Computer & Mathematical Sciences can be found at <https://www.utoronto.ca/cms/faculty-of-computer-science>. The successful candidate will also be a member of the tri-campus Graduate Department of Computer Science at the University of Toronto. They will be expected to participate actively in the Graduate Department of Computer Science (<https://web.cs.toronto.edu/>)

Salary will be commensurate with qualifications and experience. Application material for the position must be submitted online through AcademicJobsOnline. <https://academicjobsonline.org/ajojobs/15737>. It should include the candidate's cover letter, curriculum vitae, a research statement, a teaching dossier (including a teaching statement, sample syllabi, and teaching evaluations) and at least three letters of recommendation uploaded to [AcademicJobsOnline](https://academicjobsonline.org/ajojobs/15737) directly by

the writers (on letterhead, signed and scanned). If you have questions about this position, please contact Jolyn Duan, [jolyn.duan@utoronto.ca](mailto:jolyn.duan@utoronto.ca) in the Department of Computer and Mathematical Sciences.

Review of applications will begin after February 10, 2020; however, applications will be accepted until the position is filled. The Mendelzon Visiting Assistant Professorship is a position created in memory of Alberto Mendelzon, FRSC, distinguished computer scientist, and former chair of the Department of Computer and Mathematical Sciences, University of Toronto Scarborough.

The University of Toronto offers the opportunity to teach, conduct research, and live in one of the most diverse and vibrant metropolitan areas in the world.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons/ persons of colour, women, Indigenous/ Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## University of Virginia

### *Open Rank Academic General Faculty, Computer Science Department*

The Department of Computer Science at the University of Virginia seeks

applications for one or more non-tenure-track teaching faculty positions to begin in August 2020. Candidates can apply for these long-term positions at one of three professorial ranks or at one of three lecturer ranks. We seek applicants who share our interest and enthusiasm for excellence in computing science education to join our department of 58 faculty, including 17 teaching faculty.

The department is committed to creating and benefiting from an environment where a diverse group of capable, inspired individuals interact and collaborate to learn and advance knowledge without barriers.

Candidates for a General Faculty position at the rank of Assistant, Associate or full Professor must have a PhD or equivalent experience in computer science or a related discipline. They must have an interest in and ability to teach a broad set of courses in our undergraduate curriculum. Course load will be two to three sections per semester consisting of a mix of upper- and lower-division courses. Graduate-level teaching will possibly be included. Faculty in professorial positions will have service responsibilities, and scholarship in computing or in CS education is expected for promotion. The department strongly values scholarship activities by General Faculty that have potential to advance computing education.

Candidates for a General Faculty position at the Lecturer, Senior Lecturer or Distinguished Lecturer rank must have a Master's degree or equivalent experience in computer science or a related

discipline. Lecturers will usually teach two to three sections of core undergraduate courses but will also have the opportunity to teach more specialized upper-level courses. Lecturers may have fewer expectations for service activity, and will not be required to pursue scholarship.

These positions will have renewable three-year contracts. University policies insure that these positions benefit from opportunities for professional development, and there is a well-defined promotion path for these positions. General Faculty receive departmental support for their teaching and scholarship activities.

The University of Virginia is annually ranked as one of the premier public institutions in the United States and is located in Charlottesville, a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at <http://uvacharge.virginia.edu/guide.html>.

UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit <https://dualcareer.virginia.edu/>.

With one of the highest graduation rates of minority undergraduate students and one of the highest percentages of women engineering students among public universities, the Department and the University of Virginia are fundamentally committed to increasing the diversity of its faculty and staff. UVA is an affirmative action and equal opportunity employer. We welcome nominations of and applications

from women, members of minority groups, veterans and individuals with disabilities. We also welcome others who would bring additional dimensions of diversity to the university's research and teaching mission. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences.

Please apply online at [https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank-General-Faculty-in-Computer-Science\\_R0011739](https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank-General-Faculty-in-Computer-Science_R0011739) and attach the following documents: a CV; a statement of teaching philosophy; contact information for three references; and, a cover letter that addresses your experience working with diverse populations and your values related to diversity, equity, and inclusion.

Review of candidates will begin on December 12, 2019 and will continue until positions are filled.

For questions regarding the positions, please contact Raymond Pettit, Search Committee Chair, at [raymond.pettit@virginia.edu](mailto:raymond.pettit@virginia.edu).

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at [rkh6j@virginia.edu](mailto:rkh6j@virginia.edu).

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

The University of Virginia, including the UVA Health System and the University Physician's Group are fundamentally committed to the diversity of our faculty and staff. We believe diversity



## Assistant Professor of Biology and Data Science

The University of Virginia invites applications for a tenure-track Assistant Professor position with joint appointment in the Department of Biology and the School of Data Science. We seek applicants whose research programs address fundamental questions at the interface of Biology and Data Science. Of particular interest are researchers aiming to develop innovative computational tools to improve biological understanding in areas potentially including but not limited to: genomics and phenotype prediction; cell state and signaling; biological network architecture and information processing; multiscale modelling; cellular, organismal or population dynamics; biological image acquisition and analysis. Applicants are sought whose work will synergize with existing labs in the Department of Biology and elsewhere, with research emphases ranging from molecules to cells and tissues, and organisms to populations and ecosystems, as well as programs in the new School for Data Science in the areas of data acquisition, engineering, analysis, visualization or dissemination. Applicants employing computational methods with or without experimental approaches will be considered. A successful candidate is expected to establish a vigorous, independent, and externally funded research program as well as provide instruction and scientific training at the undergraduate and graduate levels. Applicants with a respect for diversity and a passion for making a positive impact on the world in a collaborative, open environment are strongly encouraged to apply. The position will begin on August 25, 2020. Located within the College of Arts and Sciences, the Department of Biology provides an interdisciplinary and collaborative environment for basic research and teaching that spans multiple levels of biological organization. The newly formed School of Data Science, founded with the largest gift in the university's history, is dedicated to open interdisciplinary research of societal benefit with data science at the core. With the schools of Medicine, Engineering & Applied Sciences, UVA offers a diverse, collegial, interdisciplinary, and collaborative environment.

### Qualifications

Applicants must have a Ph.D. in life sciences, computer science, statistics or a related field by the start of their appointment. A successful applicant will also have research accomplishments and plans of outstanding quality and significance at the interface of biology and data science as well as a commitment to excellence in teaching and mentoring. A proven commitment to participate in and further develop a diverse, collegial, interdisciplinary, and collaborative environment needs to be demonstrated.

### Application Process and Deadline

Please apply online at [https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Assistant-Professor-of-Biology-Data-Science\\_R0010887](https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Assistant-Professor-of-Biology-Data-Science_R0010887). Review of applications will begin November 3, 2019; candidates who apply by then will be given priority consideration, but the position will remain open until filled.

*The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and persons with disabilities are encouraged to apply.*

is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color,

disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

## University of Virginia

*Seeking Multiple Faculty at All Ranks in All Computer Science Areas*

### Computer Science Department

The Department of Computer Science at the University of Virginia seeks multiple tenured or tenure-track faculty at all ranks in all computer science areas. Qualifications include an outstanding record of scholarship, an awarded or expected doctorate in computer science or equivalent, and a commitment to student mentoring, undergraduate and graduate teaching excellence, diversity, and professional service. Rank is dependent upon experience and qualifications. As UVA highly values collaborative, interdisciplinary research, joint appointments in Electrical and Computer Engineering or other science and engineering departments, as appropriate, are a possibility.

With one of the highest graduation rates of minority undergraduate students and one of the highest percentages of women engineering students among public universities, the University of Virginia is fundamentally committed to increasing the diversity of its faculty and staff.

The University of Virginia is rated as one of the top 3 public universities in the nation and in the top 30 among all universities, public and private. The University is situated in the beautiful foothills of the Blue Ridge Mountains in the vibrant city of Charlottesville. For more information about UVA and the Charlottesville community please see <http://www.virginia.edu/life/charlottesville> and <https://embarkcva.com/>. The Department of

Computer Science at the University of Virginia is experiencing sustained faculty growth along with multiple research areas - for more information, see <http://www.cs.virginia.edu>. In addition, UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit <https://dualcareer.virginia.edu/>

Please apply online at [https://uva.wdl.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Multiple-Faculty-Positions-at-All-Ranks---Department-of-Computer-Science\\_R00III49](https://uva.wdl.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Multiple-Faculty-Positions-at-All-Ranks---Department-of-Computer-Science_R00III49) and attach the following required applicant documents:

- A cover letter that addresses (1) Areas of research/scholarship interest; (2) Why you want to be a professor at UVA; (3) Demonstrated experience working with diverse populations and your values related to diversity, equity and inclusion
- CV/resume
- Research Statement
- Teaching Statement
- Two (2) research papers that best represent your work
- Contact information for three references (name, email address, telephone number, and address).

Review of applications will begin on December 1, 2019, and will continue until the positions are filled.

For questions about these positions, please contact Prof. Sebastian Elbaum at [selbaum@virginia.edu](mailto:selbaum@virginia.edu). For questions about the application process, please contact Rich Haverstrom at [rkh6j@virginia.edu](mailto:rkh6j@virginia.edu).

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

The University of Virginia, including the UVA Health System and the University Physician's Group are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are an equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

## University of Virginia

*Open Rank-General Faculty in Computer Science & Data Science*

The School of Data Science, in conjunction with the Department of Computer Science, at the University of Virginia have exciting joint positions for one or more Academic General Faculty (teaching-track) positions to begin in Summer or Fall of 2020. We seek applicants who share our interest and enthusiasm for excellence in Data Science to join the Computer Science Department and the School of Data Science at the University of Virginia.

# Professional Opportunities

The School of Data Science – UVA’s 12th school and the first established since 2007 – will position the University as a global leader in efforts to improve society through teaching and research based on the powerful, emerging field of Data Science. UVA has offered a Master of Science in Data Science since 2013 and the new School of Data Science will offer doctoral, masters and undergraduate degree programs, helping to meet soaring demand for qualified Data Science professionals in a field that plays a key role in the global information-based economy.

The UVA Department of Computer Science is a nationally recognized leader in Computer Science research and education in one of the nation’s oldest and most respected engineering schools. The Department includes 58 faculty, including 17 teaching-track General Faculty, who are active in fundamental Computer Science and engineering education and research, and are actively engaged in interdisciplinary initiatives with educators, scientists, humanists, engineers in other disciplines, and medical personnel.

Candidates for the Academic General Faculty (teaching-track) positions at the rank of Assistant, Associate or full Professor must have completed a PhD in Computer Science, Computer Engineering, Data Science or a related discipline by the time they join the UVA faculty. The School of Data Science and the Computer Science Department are committed to recruiting faculty at all levels who possess a diversity of life experiences.

We especially encourage applications from individuals who are members of underrepresented groups and who have worked to support the broadening of student access to Data Science and/or Computer Science careers. We are committed to creating and benefiting from an environment where a diverse group of capable, inspired individuals interact and collaborate to learn and advance knowledge without barriers.

Candidates are expected to develop and teach potentially both residential and online courses primarily for the *Master of Science in Data Science program*, and to teach courses at the undergraduate or graduate level in residential programs for *the Computer Science Department* and School of Data Science. Candidates with strong backgrounds in areas supporting computing topics such as data mining, machine learning, databases, and cloud computing are encouraged to apply.

Successful candidates will have service responsibilities, and scholarship in data science and/or education is expected for promotion. The School and the Department strongly value scholarship activities by General Faculty that have potential to advance computing education.

These positions will have renewable three-year contracts. University policies ensure that these positions benefit from opportunities for professional development, and there is a well-defined promotion path for these positions. General Faculty receive support for their teaching and scholarship activities.

The University of Virginia is annually ranked as one of the premier public institutions in the United States and is located in Charlottesville, a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at <http://uvacharge.virginia.edu/guide.html>.

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Please apply online at [https://uva.wdl.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank-General-Faculty-in-Computer-Science--Data-Science\\_R0012991](https://uva.wdl.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank-General-Faculty-in-Computer-Science--Data-Science_R0012991) and attach the following documents: a CV; a statement of

teaching philosophy; contact information for three references; and, a cover letter that addresses your experience working with diverse populations and your values related to diversity, equity, and inclusion.

Review of candidates will begin on February 6, 2020 and will continue until positions are filled.

For questions regarding the positions, please contact Nada Basit, Search Committee Chair, at [basit@virginia.edu](mailto:basit@virginia.edu).

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at [rh6j@virginia.edu](mailto:rh6j@virginia.edu).

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

*The University of Virginia, including the UVA Health System and the University Physician's Group are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.*

## Ursinus College

### *Visiting Assistant Professor of Computer Science*

The Department of Mathematics and Computer Science at Ursinus College is inviting applications for a two-year Visiting Assistant Professor position in Computer Science beginning Fall 2020. A Ph.D. in Computer Science or a related field is required.

The successful candidate will have demonstrated the potential for excellence in teaching computer science. The teaching load for this position is 3 courses in each semester.

Applications and more details should be submitted through <http://apply.interfolio.com/72568>

An application includes letter of application, CV, and teaching philosophy. Deadline is March 1.

## Wayne State University

### *Assistant/Associate Professor*

Applications are invited for multiple tenure-track faculty positions at the assistant/associate professor level beginning in Fall 2020. While candidates with research expertise in computer vision, machine learning, data-intensive computing, security, network systems or embedded software engineering will receive the strongest consideration, outstanding applicants in other areas will also be considered. This search is primarily at the assistant professor level, but candidates

with exceptional accomplishments will be considered for senior levels. Faculty candidates are expected to have a Ph.D. in Computer Science or a closely related field by their start date and to demonstrate potential for excellence in both research and teaching.

The Department of Computer Science has 21 tenured or tenure-track faculty members and 6 teaching faculty members, with research strengths in the areas of Artificial Intelligence, Bioinformatics, Computer Systems (e.g., Real-time Systems, Cyber-Physical Systems, Autonomous Systems, and Edge Computing), Data Science, Graphics and Visualization, Software Engineering and Wireless Networking. The research in the department is also highly interdisciplinary with active collaborations with faculty in medicine, engineering, and sciences and with local industry such as the Ford Motor Company and General Motors. The Department has five NSF CAREER recipients, with two CAREER awards in 2019 and external funding of over \$2.0M annually. The department currently has 65 Ph.D. students, along with 75 Master's students, and about 900 undergraduate majors.

Applicants should submit a cover letter, statement of research and teaching, and curriculum vitae with the contact information of three references. For full consideration, applications must be received by February 15, 2020.

More information on these positions are available at the following link:

<https://engineering.wayne.edu/cs/about/opportunities.php>

Wayne State University is a premier, public, urban research university located in the heart of Detroit where students from all backgrounds are offered a rich, high quality education. Our deep-rooted commitment to excellence, collaboration, integrity, diversity and inclusion creates exceptional educational opportunities preparing students for success in a diverse, global society. WSU encourages applications from women, people of color, and other underrepresented people. Wayne State University is an affirmative action/equal opportunity employer.

## Wayne State University

### *Research Assistant/Associate*

Wayne State University invites applications for a Research Assistant/Associate in the Department of Computer Science as part of the JETSCAPE collaboration.

The Jet Energy-loss Tomography with a Statistically and Computationally Advanced Program Envelope (JETSCAPE) collaboration is an NSF funded multi-institutional project to study droplets of matter at extreme temperatures of more than a trillion degrees using jets of particles emanating from these droplets. Matter at these temperatures last existed microseconds after the big bang, and is now routinely created at Brookhaven National Laboratory in New York and at CERN in Switzerland.

The term of the position will be one year, renewable annually for a total of at least

two years, beginning as soon as possible. Further renewals are subject to the availability of grant funding

**Essential Duties:** The collaboration involves teams of theoretical physicists, experimental physicists, statisticians, and computer scientists from Duke, MIT, McGill, Ohio State, University of Tennessee, Lawrence Berkeley National Lab, Lawrence Livermore National Lab, Texas A&M, and Wayne State. A key component of this research is the seamless integration of diverse simulation codes into a scalable open-source software tool.

**Qualifications:** The position requires a Master's in computer science, engineering, computational physics or related discipline or a Bachelor's degree with significant relevant experience, with demonstrated expertise in developing and managing large-scale software projects. HPC experience is desirable but not required.

**Application Instructions:** Applicants should submit a cover letter, CV, and contact information for three references. Applications must be submitted online at <http://jobs.wayne.edu> (posting number 044666). Questions should be directed to Loren Schwiebert at [loren@wayne.edu](mailto:loren@wayne.edu) or to Abhijit Majumder at [majumder@wayne.edu](mailto:majumder@wayne.edu).

## William & Mary

### *Assistant Professors of Computer Science*

The Department of Computer Science at William & Mary seeks applications for multiple tenure-track positions at

the Assistant Professor level to begin in the 2020-2021 academic year. We are interested in exceptional applicants from all areas of computer science. Applicants must have a Ph.D. in computer science or a related field at the time of appointment and must have a strong research record and a commitment to teaching.

William & Mary is consistently ranked in the elite group of the Best National Universities-Doctoral by U.S. News and World Report and is committed to a multi-year effort to strengthen and expand its computer science research program. With a teaching load of two courses per year and institutional support, the department has been rising in national rankings of graduate CS departments; and has been the home of multiple NSF and DOE Career Awards. The department offers B.S., M.S., and Ph.D. programs. More information about the department can be found at <http://www.cs.wm.edu> or by contacting the department chair at [rmlawi@wm.edu](mailto:rmlawi@wm.edu).

Applicants must apply online at <https://jobs.wm.edu> (follow the link for instructional faculty). Please submit a cover letter, a curriculum vitae, and statements of research and teaching interests. Applicants will be prompted to submit online the names and email addresses of three references who will be contacted automatically with instructions for submitting letters of recommendation. For full consideration, please submit application materials by the review date, January 6, 2020. Applications received after the review date will be considered if needed.

William & Mary values diversity and invites applications from underrepresented groups who will enrich the research, teaching and service missions of the university. William & Mary is an Equal Opportunity/Affirmative Action employer and encourages applications from women, minorities, protected veterans, and individuals with disabilities. William & Mary conducts background checks on applicants for employment.

## Yale University

### Senior Lecturers or Lecturers in Computer Science

The Yale Computer Science Department invites applications for multiple positions at the rank of Lecturer or Senior Lecturer, to start in the 2020-2021 academic year. Applicants are expected to excel in the teaching of large introductory courses. Opportunities to teach upper-level courses, to supervise student projects, and to collaborate with Yale's world-class faculty in numerous computationally active fields are also available. The department's home page can be found at <https://cpsc.yale.edu/>.

A candidate should hold a Ph.D. or equivalent degree in computer science or a related discipline at the time of hire. Required application materials include: curriculum (CV), cover letter, teaching statement, and a minimum of three references letters from outside Yale. Any questions regarding the Lecturer position, please contact Susan Hurlburt at: [susan.hurlburt@yale.edu](mailto:susan.hurlburt@yale.edu). The department will

start reviewing applications on February 1, 2020 and will continue until the position is filled. Please apply at: Please apply at: <http://apply.interfolio.com/72239>.

Yale University is an Affirmative Action/ Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans and underrepresented minorities.

## Yale University

### Department of Computer Science

#### Tenure-Track Faculty Positions

The Yale Computer Science Department invites applications for multiple tenure-track faculty positions to start in the 2020-2021 academic year. Qualified applicants in computer science are invited to apply, with a preference for Artificial Intelligence, Machine Learning, and Distributed Systems. The department is slated to grow significantly over the next few years, and new hires will have the opportunity to influence future directions.

Applicants are expected to excel in both research and teaching. Yale provides many opportunities for research collaborations both inside and outside the Computer Science department. Interdisciplinary work is encouraged, with Yale's world-class faculty in numerous computationally active fields. Yale faculty regularly have the opportunity to teach excellent students, both graduate and undergraduate. The

department's home page can be found at <http://cpsc.yale.edu/>.

A candidate should hold (or expect to receive by the end of 2020) a Ph.D. in computer science or a related discipline. Applications submitted by December 15, 2019 will be given highest priority. Applicants are asked to submit a cover letter (optional), curriculum vitae, teaching statement, research statement, and three confidential letters of recommendation. Contact Susan Hurlburt at [susan.hurlburt@yale.edu](mailto:susan.hurlburt@yale.edu) with any questions regarding the application. Please apply at: <http://apply.interfolio.com/70353>.

Yale University is an Affirmative Action/ Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and underrepresented minorities.