

# 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

### Nominations Open for 2022 CRA-E Undergraduate Research Faculty Mentoring Award

Nominations are due Friday, November 22, 2021 by 5 PM (ET). Winners will be notified by early February 2022.

*see page 2 for full article*

### CRA's CV Database Initiative Turns Three

Applications are now open for the 2022 CRA-WP Graduate Cohort Workshops.

*see page 3 for full article*

### CRA-WP 2022 Graduate Cohort Workshops - Applications Open!

Applications are now open for the 2022 CRA-WP Graduate Cohort Workshops.

*see page 14 for full article*

## Are You Working on the Taulbee Survey?

The CRA Taulbee Survey is in progress.

The deadline for the salary section is **November 29**.

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

**January 24, 2022:** Due date for the main Taulbee section.

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# Nominations Open for 2022 CRA-E Undergraduate Research Faculty Mentoring Award



**CRA-E**

Computing Research Association  
Education

The **CRA-E Undergraduate Research Faculty Mentoring Award** honors faculty members in computing who have made a significant impact on students they have mentored. It recognizes those who have provided exceptional mentorship and undergraduate research experiences and, in parallel, guidance on admission and matriculation of these students to research-focused graduate programs in computing.

Eligible nominees are full-time faculty members at North American academic institutions. Faculty members include tenured and tenure-track faculty, instructors, and professors of the practice. Current members of CRA-E are not eligible to be a nominee or to serve as a nominator. Nominations must be submitted by a faculty member or researcher in the computing field.

**Nominations** are due Friday, November 22, 2021, by 5 PM (ET). Winners will be notified by early February 2022. Click [here](#) to view the 2021 award winners and [here](#) to view the FAQs.

The award is given annually, and multiple recipients may be awarded. The selection committee will give appropriate consideration to different types of schools and mentors at different stages of their careers. The awardees will receive travel support to attend the meeting at which they accept the award.

## Evaluation criteria

The committee will evaluate the evidence of:

- Undergraduate student mentoring during the most recent 10 years (being sensitive to the size of the program) including the number of students enrolling in research-oriented M.S. or Ph.D. programs
- Professional development provided to the students mentored
- Diversity of students
- Impact and success of the students' research

## The 2022 selection committee includes:

Denys Poshyvanyk (William & Mary), **Chair**

Monica Anderson (University of Alabama)

Gary Holness (Clark University)

Lenore Cowen (Tufts University)

## CRA's CV Database Initiative Turns Three

The CRA *CV Database* is now open for applications for the 2021-22 recruiting season. It can be accessed through <https://cra.org/cv-database/>. Candidates will be able to upload their resumes, research and teaching statements, job objectives and other preferences, and a link to a short presentation video. Recruiters will be able to search this information and are encouraged to contact candidates starting mid-November.

**Please encourage all of your finishing PhD students looking for academic or industrial/government laboratory research positions to post and complete their applications soon, before the computing research recruiting season begins.**

### Background:

As a first step to address [recent recruiting challenges](#) in the computing research community, the Computing Research Association (CRA) launched the *CV Database* initiative in Fall 2018. This initiative provides a database of candidates for academic and industrial/government laboratory research positions. It is searchable by most CRA member institutions.

During its third year the *CV Database* received [204 completed applications](#) (out of 303 started). In comparison with previous years, the number of applications completed steadily rose. The *CV Database* was actively queried by the CRA membership, who downloaded a total of 187 CVs.

Recruiting continues to be [one of the computing research community challenges](#). Thus, CRA plans to strengthen the *CV Database* initiative and take additional actions in 2021-22.

*What's new this year?* The CRA *CV Database* will add signaling mechanisms to improve the situation:

- In January 2020, a [Best Practices](#) memo was shared with applicants, including tips for remote interviewing via video conferencing.
- In March 2020, a "Still looking" checkbox was added and filled out by candidates to let recruiters know if they were still actively searching for positions. CRA will continue using this feature, which will be available for use in the Spring.
- An online submission form will be provided to applicants to share their *CV Database* success stories, some of which may be featured on the CV Database website.

### Next Steps:

In mid-November 2021, recruiter access to the *CV Database* will be made available to all CRA academic members. Additionally, industrial and government laboratory CRA member institutions that sponsor Grad Cohort 2021 at the silver level and above will receive access.

We hope that your PhD students and your Faculty Recruiting Committee find this service valuable. For further information visit: <https://cra.org/cv-database/#Info>.

Questions should be directed to [cvdatabase@cra.org](mailto:cvdatabase@cra.org).

# Undergraduates are Learning More Programming Languages Prior to Matriculation; Students from Underrepresented Populations in Computing Report Smaller Increase

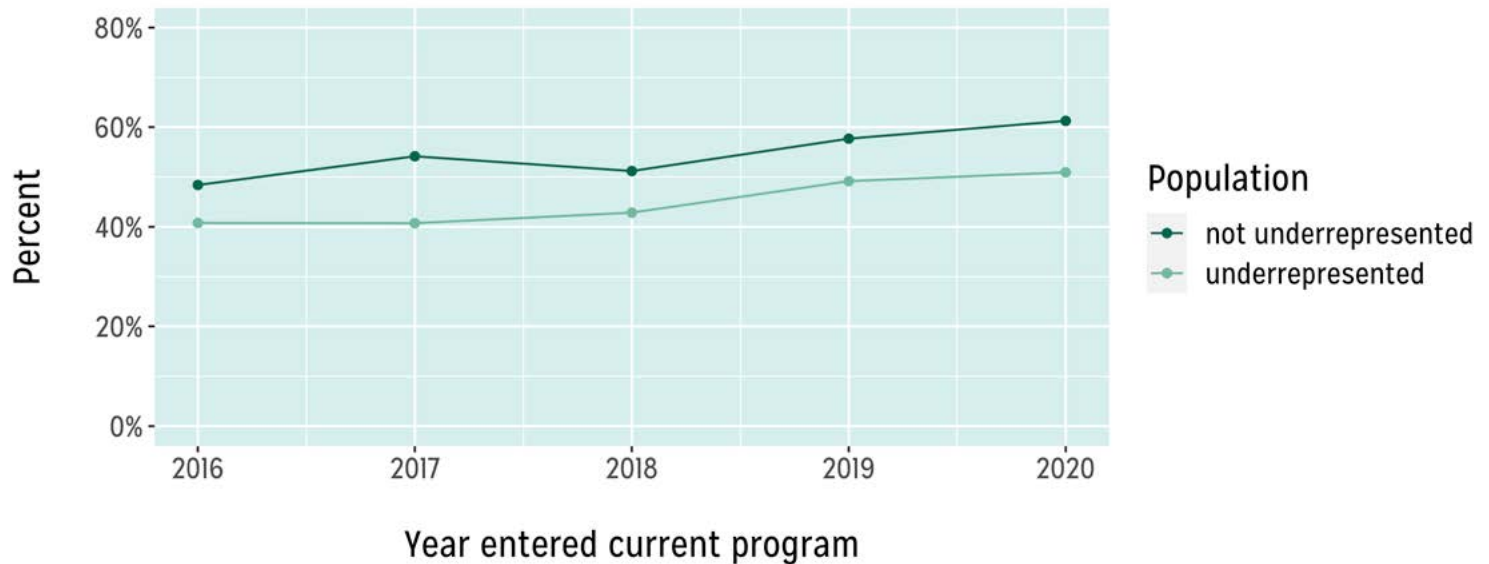


CERP

Computing Research Association  
Evaluation

By Evelyn Yarzebinski, CERP Senior Research Associate

## Undergraduates who learned a new programming language prior to their current program



Note: Underrepresented populations in computing include students who are women, Black/African American, Hispanic/Latinx, American Indian, Alaska Native, Native Hawaiian, Pacific Islander, and/or persons with disabilities. Non-underrepresented populations in computing include students who are Asian and/or non-Hispanic White.  
Source: Data Buddies Survey (DBS) 2020, Center for Evaluating the Research Pipeline, Computing Research Association

Prior to entering undergraduate programs, some individuals have the opportunity to engage in experiences related to computing, such as learning a new programming language. How do these rates of experience differ between the following two groups of students?

1. Undergraduate students from populations that are underrepresented in computing fields (e.g. women, Black/African American, Hispanic/Latinx, American Indian, Alaska Native, Native Hawaiian, Pacific Islander, and/or persons with disabilities)
2. Undergraduate students from other populations that are not underrepresented in computing fields (e.g. Asian and/or non-Hispanic White)

CERP summarized the results of the Fall 2020 Data Buddies Survey (DBS) for Undergraduates to understand this experience for undergraduate students who entered their current program within the last five years (2016-2020). Within each group and by each matriculation year, CERP calculated the percentage of undergraduates who indicated they learned a new programming language prior to matriculation. From 2016-2020, students reported an overall increasing rate of learning a new programming language prior to their matriculation year. Moreover, for those matriculating in 2020, both groups reported more than 50% of students had already learned a new programming language.



## More Programming Languages *(continued)*

While that is an encouraging trend, there appears to be a persistent, average 10% difference between these groups of students each matriculating year, wherein students from populations underrepresented in computing are less likely to enter their undergraduate program with programming experience compared to their peers. Further investigation is needed to understand the significance of this difference and its implications for these students - and the field of computing as a whole.

### Notes:

The survey data analyzed for this infographic were collected by Center for Evaluating the Research Pipeline via The Data Buddies Project. The sample includes 4,984 undergraduates who indicated they had joined their current program within the last 5 years, indicated whether they had learned a new programming language prior to entering an undergraduate program, and provided demographic information.

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](#).

The Data Buddies Project is currently supported through National Science Foundation (NSF) awards CNS-1840724, CNS-2036717, DUE-1821136, sub-awards and contracts, and direct CRA contributions. Previous NSF awards that supported DBS include CNS-1246649 and DUE-1431112. 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.

# White House Announces New Members to the President's Council of Advisors on Science and Technology; Several Computer Science Researchers Included



By CCC and CRA Staff

President Biden announced 30 of America's most distinguished leaders in science and technology as members of his **President's Council of Advisors on Science and Technology** (PCAST).

PCAST is the premier science advisory committee within the Executive Office of the President and is the sole body of advisors charged with making science, technology, and innovation policy recommendations to the President and the White House. Established by Executive Order, it is an independent Federal Advisory Committee composed of distinguished individuals from industry, academia, and non-profit organizations with a range of perspectives and scientific expertise.

The announcement builds on President Biden's commitment to, **"refresh and reinvigorate our national science and technology strategy."** In January, when the President announced his nomination of Dr. Eric Lander as the President's Science Advisor and a member of his Cabinet, he tasked Dr. Lander and the PCAST co-chairs with five questions to lead to recommendations to the Administration, "on the general strategies, specific actions, and new structures that the federal government should adopt to ensure that our nation can continue to harness the full power of science and technology on behalf of the American people." Reforming the general membership of PCAST is another step in following through with that strategy. **CRA applauded** that announcement earlier this year and we continue to applaud the effort to keep "science...always...at the forefront" of the country's endeavors.

The new membership includes a number of computer science researchers:

- **Eric Horvitz** is a leading researcher in artificial intelligence (AI) and issues at the intersection of technology, people, and society – including the technical and societal challenges and opportunities presented by AI's uses. He is Chief Scientific Officer at Microsoft and former **Computing Community Consortium** (CCC) Council member who was the keynote speaker at CCC's **Artificial Intelligence For Social Good** workshop in June 2016. Dr. Horvitz is the third CCC alumni to serve as a member of PCAST; **Susan Graham** and **Daniela Rus** served on past versions of the council.
- **William Dally** invented hardware architectures that power parallel computing, modern supercomputers, and artificial intelligence as we know it today. He is the Chief Scientist and Senior Vice President for Research at NVIDIA, a leading computer chip and technology company.
- **William Press** is a computer scientist, computational biologist, and astrophysicist who co-discovered the mathematical model for predicting the distribution of masses of galaxies throughout the universe. He is the Leslie Surginer Professor of Computer Science and Integrative Biology at The University of Texas at Austin.
- **Phil Venables** is a computer scientist, software engineer, and expert in technology, security, and enterprise risk who has co-founded and led multiple corporate and industry-wide cybersecurity initiatives focused on safeguarding critical infrastructure in the financial sector. He is Chief Information Security Officer at Google Cloud.
- **Andrea Goldsmith** is a pioneer in the field of wireless communications whose discoveries have influenced cellular and WiFi networks all over the world. She is the Dean of the School of Engineering and Applied Science and the Arthur LeGrand Doty Professor of Electrical and Computer Engineering at Princeton University, and was the first woman to win the Marconi Prize.

For more information, see the full white house press release.



# Qubits and Quibbles

By Khari Douglas

Khari Douglas attended the 8<sup>th</sup> Heidelberg Laureate Forum (HLF) in September 2021 and recapped some of the computing-related sessions on the [CCC blog](#). Check out the [HLF blog](#) for more coverage of the event.

On the opening day of the 8<sup>th</sup> Heidelberg Laureate Forum, **Scott Aaronson**, winner of the 2020 ACM Prize in Computing, discussed the recent advancements in quantum computing and the impact that “quantum supremacy” could have on the future of computing. Aaronson described quantum mechanics as the operating system of the universe, through which everything in nature runs as an application program.

As Aaronson explained, the state of any isolated physical system can be shown as a unit vector of complex numbers called “amplitudes,” the quantum mechanical representation of probabilities. The ability to accurately simulate isolated physical systems would be very useful to many scientific fields; however, this is exponentially hard to do on a classical computer because the dimensions of a quantum state increase exponentially with the number of particles in the system. This is because a quantum bit, or qubit, can exist in state of superposition where it is both 0 and 1 simultaneously. This is written in **Dirac notation** as  $\alpha|0\rangle + \beta|1\rangle$  where  $\alpha$  and  $\beta$  are amplitudes or complex numbers that represent the probability of being either 0 or 1. Once you measure the qubit, the superposition “collapses” and shows you either a 0 or 1.

Since a qubit can exist in this superposition, to represent a system with “n” number of qubits states requires a vector of  $2^n$  amplitudes. For example, a 1000 qubit system, which would



Scott Aaronson, 2020 ACM Prize in Computing Winner

represent a small molecule, requires  $2^{1000}$  amplitudes.  $2^{1000}$  is greater than the number of particles that exist in the observable universe, so simulating the behavior of such a system is not possible for classical computers.

Aaronson went on to discuss the recent hunt for “quantum supremacy” or “quantum advantage.” Quantum supremacy was coined in 2012 by **John Preskill**, a physicist and professor at CalTech University, and it refers to the point at which a quantum computer is able to compute some well-defined mathematical task faster than an current classical computer (regardless of the usefulness of this task). In 2019, a team from Google published **a claim of quantum supremacy** in *Nature*.

The quantum processor designed by the Google team is called “Sycamore” and was able to create quantum states on 53 qubits. According to the team, the Sycamore processor “takes about 200 seconds to sample one instance of a quantum circuit a million times—our benchmarks currently indicate that the equivalent task for a state-of-the-art classical supercomputer would take approximately 10,000 years.” This is a truly game-changing speed-up, however it is still limited to one very specific, and not particularly useful task. **A response from IBM** at the time claimed “that an ideal simulation of the same task can be performed on a classical system in 2.5 days and with far greater fidelity.”



## Qubits and Quibbles (*continued*)

IBM never actually tested this task on a classical system, but, either way, it is clear that there is still much research yet to be done in order to create more useful quantum computers.

While more advanced quantum computers would be useful to fields such as biochemistry and nuclear physics, they are also predicted to threaten encryption systems, like RSA, that we rely on to transmit data over the Internet. Overly-simplified, RSA is a public key cryptography algorithm that generates public and private keys through the manipulation of prime numbers. Currently, RSA is a very secure encryption scheme because it takes a long time to factor large semiprimes (the product of two prime numbers) which are used in RSA. In 1994, mathematician **Peter Shor** created Shor's algorithm, which is able to find the prime factors for any integer  $N$  using a quantum computer. Thus if (or when) a quantum computer is created that is capable of running Shor's algorithm,

it could be used to break RSA and other public-key cryptography that relies on factoring primes to generate keys.

Not only would this impact, say, your online banking transactions, but it could also jeopardize the security of military or intelligence information. Encrypted data could be collected by adversaries in the present and, once a sufficiently advanced quantum computer is created, that data could then be decrypted and the intel utilized. The fear of such a future has prompted organizations like the **U.S. National Institute of Standards and Technology** to create programs on post-quantum cryptography. In 2016 NIST **announced a program** to "develop and standardize one or more additional public-key cryptographic algorithms to augment FIPS 186-4, Digital Signature Standard (DSS)." This program is currently in round three of candidate algorithms submissions. More information can be found **here**.

A few years ago, the **Computing Community Consortium**, a visioning body for computer science research (and my employer) ran a **visioning workshop** on post quantum cryptography migration and released a **workshop report** that highlights outstanding research questions in this area. The most important take away from the report is: "While NIST's much-needed standardization initiative addresses the selection of new cryptographic algorithms, there is an urgent need to consider the complex problem of migration from today's widely deployed algorithms to PQC alternatives" (p. 18). This is not merely a technical problem, but also a social and policy issue as you need to ensure that all the developers who work in this space are able to migrate to post-quantum alternatives if it becomes necessary.

You can watch the entirety of Scott Aaronson's lecture on the **HLF Youtube** channel.





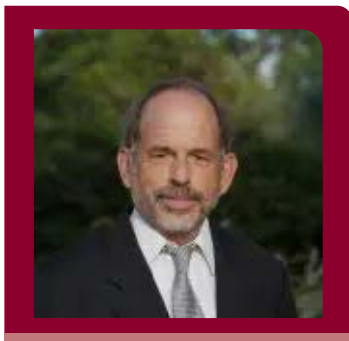
# Pitch Perfect

By Khari Douglas

Khari Douglas attended the 8<sup>th</sup> Heidelberg Laureate Forum (HLF) in September 2021 and recapped some of the computing-related sessions on the [CCC blog](#). Check out the [HLF blog](#) for more coverage of the event.

It may not be your forte, but communicating your research results is an important part of the scientific process. In order to help young researchers improve their skills in this domain, the 8<sup>th</sup> Heidelberg Laureate Forum included an interactive session titled, "Pitch Your Science News and Opinion Stories to News and Magazine Editors." This session was hosted by **Susan D'Agostino**, Associate Editor of the *Bulletin of Atomic Science*, a media organization that focuses on man-made threats to human existence, and the panel included **Bill Andrews** (Senior Editor at *Quanta Magazine*), **Tom Edgar** (Editor at *Math Horizons*), **John Mecklin** (Editor in Chief at *Bulletin of the Atomic Scientist*), and **Amy Nordrum** (Commissioning Editor at *MIT Technology Review*). Each sharing their tips and insights on how to successfully pitch your stories to science publishers.

A pitch is a one-page letter that you submit to an editor at a publication that explains 1) what the story is you want to tell and 2) why you are a good person to write this story. Below are some of the most important things to consider when writing your pitch according to the panel:



- **John Mecklin** highlighted the importance of your first sentence, both in your story and in the pitch. Additionally, he warned of the danger of acronyms, calling them "poisonous ants that will bite readers in their eyeballs." You need to remember that most editors know nothing about your specific subfield, and so you need to make sure that your story is accessible and gives enough context that someone without much background in your field can understand it.
- **Tom Edgar** said that frequently the mathematicians he works with are not clear on page limits and word counts. It is important to make sure you have a clear ending in mind for your article when you pitch it to a publisher. You can't just go on and on, your story needs a decisive ending.
- **Amy Nordrum** stressed the importance of being specific. A pitch that is vague in terms of language and focus will be subpar. You have to think about what kind of readers will be reading the publication you are pitching to and tailor your approach to fit that. You must also clearly convey why the thing you are highlighting will matter to the readers of the publication.



## Pitch Perfect (*continued*)



- **Bill Andrews** said to make sure that your story is in fact a story. Just explaining something that is cool is not a story – a story needs to go someplace and have a clear beginning and ending. Also, even if your day job isn't as a writer, you still need to make sure your pitch is well-written. If you have typos and poor grammar an editor will be less interested in your pitch.
- To close, **Susan D'Agostino** echoed the advice of Nordrum and encouraged all the participants to regularly read the publications you are interested in pitching to. Aside from learning something new, you will also learn what kinds of stories the publisher likes and can tailor your pitch to be similar.

During the session, the young researchers were also split into breakout groups to give their pitches to the editors and get feedback on how to improve them. I won't spoil those pitches here, but it sounds like the young researchers will be publishing some interesting articles in the future!



# Serving as a DARPA PM: A very long lever arm

*By Kathleen Fisher, Tufts University*

Going to DARPA as a Program Manager (PM) is a great opportunity to make a difference by creating and managing a program much bigger in scope than what an individual faculty member can do at a university. Other PMs are talented and innovative thinkers who come from a broad range of backgrounds. Exposure to them and to the range of problems DARPA is reckoning with can be eye-opening. In the following paragraphs, I describe my experiences serving as a PM to convey a sense of what the job is like and why it might be an attractive career option.

In 2017, a professional red team launched a cyberattack against a Boeing ULB helicopter. While it was in flight. With two test pilots on board. The red team, which had extensive knowledge of the system, had been given root access to a partition on the ULB's mission-control computer. They were charged with breaking out of that partition to disrupt the operation of the helicopter.

**They were not successful.** This test was the culmination of **DARPA's HACMS program**, which demonstrated that formal methods could be used to build practical, hard-to-hack software. The result has stood the test of time: in 2021 DARPA challenged all comers at the DEFCON Aerospace Village to wirelessly break into the open-source SMACCMcopter, also developed by HACMS researchers. **None were successful.**

DARPA funded the four-and-a-half-year, \$80M HACMS program despite the conventional wisdom that formal methods were only relevant for toy problems because DARPA's mission is to fund high-risk, high-reward research that takes technical risk off the

table in topics of relevance to national security. Put another way, DARPA's mission is to detect or create strategic surprise. It often funds fundamental research, not as a goal in itself, but rather as a side effect of that mission. DARPA funded HACMS because it decided formal methods offered the possibility of building more secure systems with important consequences for national security.

From 2011-2014, I served as a PM at DARPA. While there, I envisioned the HACMS program, convinced DARPA to fund it, selected the best researchers from around the world to work on it, and then managed the program for the first half of its existence. I decided to serve as a program manager at DARPA precisely because of the potential for outsized impact. By analogy, as a graduate student, you are intimately familiar with the nitty-gritty details of your own research. As a faculty member, you are responsible for seeing a bigger picture; writing grant proposals that articulate that vision; and hiring and mentoring PhD students, which entails ensuring they have the resources they need, they are making progress, and they are playing well with others. Occasionally, you get to do some technical work yourself. As a DARPA program manager, you are responsible for seeing an even bigger picture with strategic, national-security consequences. Instead of writing a grant proposal, you write a meta-grant proposal (also known as a Broad Agency Announcement or a BAA). Instead of hiring PhD students, DARPA contracts with research groups from around the world. Instead of supervising your PhD students, you manage those research



groups, ensuring they have the resources they need, they are making progress, and they are playing well with others. Very occasionally, you get to do some technical work yourself. The team can accomplish things well beyond the scope of a single professor's research group: things like what the HACMS researchers accomplished with the ULB.

DARPA is structured with six technical offices with an overall annual budget of approximately \$3.5B. The office most aligned with computer science and in which I served as a program manager is the Information Innovation Office, typically called "I20." I20 currently focuses on challenges in AI; cybersecurity; information and disinformation; and resilient, adaptable, and secure systems.

All program managers at DARPA have expiration dates on their badges, serving a maximum of six years. This practice has consequences both for PMs and for the agency. PMs have a sense of urgency, needing to accomplish the vision that brought them to DARPA before their time



## DARPA PM (continued)

expires. DARPA avoids empire building among its PMs because no one stays long enough to build an empire. It also means DARPA is always hiring. The constant renewal is appropriate for an agency whose mission is creating surprise: once you have been there for a while, DARPA has likely sucked all the surprise out of you, and so it is time for a new PM with a fresh perspective.

Also consistent with DARPA's surprise-oriented mission, DARPA is a lean, bottom-up organization. It has roughly 100 program managers who oversee the work of thousands of researchers. That organizational structure means DARPA can change focus quickly as old problems are solved and new problems become important. Program managers are responsible for proposing new programs, which means DARPA benefits from their diverse perspectives.

When starting as a PM, your primary goal is to develop a new program as quickly as possible. You likely had some idea for a new program when you interviewed. After starting, you need to refine those ideas. A discipline many PMs follow is to develop compelling answers to the Heilmeier Catechism, which are questions originally proposed by George Heilmeier, who served as the director of DARPA from 1975-1977:

- What are you trying to do? Articulate your objectives using absolutely no jargon.
- How is it done today, and what are the limits of current practice?
- What is new in your approach and why do you think it will be successful?

- Who cares? If you are successful, what difference will it make?
- What are the risks?
- How much will it cost?
- How long will it take?
- What are the mid-term and final "exams" to check for success?

An additional question that requires an answer is "Why should DARPA get involved?" Finding data-driven answers to these questions typically requires talking to lots of people from a variety of backgrounds and disciplines, exploring what is needed and what might be possible. Once you have good answers, you draft a "program pitch" for DARPA's "Tech Council," which is comprised of the leaders of each of the offices as well as DARPA-wide leadership. During the pitch, you have thirty minutes to present your case and then another thirty minutes to answer questions. Shortly thereafter, you get feedback from DARPA: go ahead or back to the drawing board.

Once your program is approved, your goal shifts to launching the program as quickly as possible. The first step is to draft a Broad Agency Announcement describing the program and the contributions you are looking for from "performers," DARPA's term for people who work on its programs. The clarity you gained in preparing the pitch is essential to draft a good BAA: it is crucially important the BAA clearly articulate the goals of the program, what you want the performers to do, and how you want them to collaborate. If you can't explain it well, they won't "get it" and your program will

fail. Around the time DARPA releases the BAA, you likely host a "proposer's day," which gives you a chance to explain your vision to potential performers and answer questions. When the proposals come in, you evaluate them with respect to the selection criteria published in the BAA with the help of a committee comprised of expert government employees. (There are a lot of knowledgeable researchers working in national labs, in military service labs, at NSA, etc., so constituting a highly qualified selection panel is not difficult.) Reviewing these proposals feels very different from reviewing NSF proposals because they represent the means by which your program will succeed or fail.

After selecting your performers and working with specialists to get them on contract, you move on to managing your program. You are responsible for actively tracking the state of the overall program and each performer's progress via a combination of site visits, PI meetings, progress reports, teleconference calls, and a variety of other engagements depending upon the program and the performer. You are looking for connections performers might not see, places where they might need additional resources, teams that need help working together, approaches that despite initial promise are no longer worth pursuing, places where technology might be ready to transition into practice, and accomplishments you can report back to DARPA. The style of management varies from program to program and within programs depending upon the roles of individual performers.



## DARPA PM (continued)

DARPA provides first-class administrative support so that program managers can focus on creating and running their programs, not filling out paperwork. It is the best-run organization I have worked with throughout my career. Of particular help are SETAs, which is the term DARPA uses for contractors who provide “Systems Engineering and Technical Assistance.” Each PM works with a team of SETAs who have a combination of technical and administrative experience.

DARPA has a number of policies that make it easier for academics to serve as program managers. PMs can choose to work at DARPA either as a government employee

or as an “IPA,” short for Intergovernmental Personnel Act, which is a mechanism by which non-profit organizations can lend their employees to the government. I was an IPA from Tufts University. Tufts paid my salary and provided my benefits, and DARPA reimbursed my institution, allowing me to keep my tenure at Tufts. In the past, DARPA required PMs to work out of its offices in Arlington, VA, but experience with Covid-19 has shown that PMs can be successful working remotely. Going forward, it is likely that PMs will only need to work from Arlington until they sell their first program. That initial period, which varies in length

between roughly one and six months, gives new PMs a chance to learn DARPA’s culture and get to know the relevant people. IPAs can be appointed 80% time, meaning one day a week they continue working for their host institution, for example, supervising PhD students.

I enjoyed my tour as a PM at DARPA so much I’m going to return this fall to serve as Deputy Director of I20, helping new PMs develop and manage their programs. I’d encourage you to imagine what problems you could solve with a hundred of the world’s best researchers. If you find that thought experiment intriguing, considering doing a tour at DARPA!

# CRA-WP 2022 Graduate Cohort Workshops – Applications Open!



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



## **2022 GRAD COHORT Applications Oct. 1 - Nov. 15**

CRA-WP will host two Graduate Cohort Workshops in 2022. The Grad Cohort Workshop for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills (GC-IDEALS) is designed specifically for populations underrepresented in computing and persons with disabilities in graduate school in computing fields. The Grad Cohort Workshop for Women (GC-Women) is designed for women students in their first, second, or third year of graduate school in computing fields.

Grad Cohort participants will have an opportunity to build mentoring relationships and develop peer networks intended to form the basis for ongoing activities during their graduate career and beyond.

***Both applications are now open and will close on November 15.***

### **Grad Cohort for IDEALS**

- **Date and Location:** March 24-26, 2022 in San Diego, CA
- Learn more today by hearing from previous attendees in [this video](#).
- **Eligibility:** Master's and Ph.D. computer science and engineering students who are attending an institution in North America (Canada, the U.S. or its territories, or Mexico). Applicants from underrepresented groups in computing will be given priority (Alaska Native, Black/African American, Hispanic, Native American, Native Hawaiian, and other Pacific Islander, and/or Persons with Disabilities).

[Click here](#) for the GC-IDEALS application.

### **Grad Cohort for Women**

- **Date and Location:** April 21-23, 2022 in New Orleans, LA.
- Learn more today by hearing from previous attendees in [this video](#).
- **Eligibility:** Women students in their first, second or third year of graduate school in computer science and engineering or a closely related field, who are attending an institution in North America (Canada, the U.S. or its territories, or Mexico). Students who have not previously attended a Grad Cohort Workshop will be given priority.

[Click here](#) for the GC-Women application.

# CRA-WP Welcomes Amanda Stent as its Newest Co-Chair



CRA-WP welcomes Amanda Stent as its newest co-chair, serving a 2-year term. She joins [Sandhya Dwarkadas](#) and replaces [Andrea Danyluk](#), who has retired from the CRA-WP and CRA Board of Directors.

Stent was [recently named](#) the inaugural director of the Colby College [Davis Institute for Artificial Intelligence](#). She Previously held positions as the NLP Architect in the Chief Technology Office at Bloomberg, Director of Research and Principal Research Scientist at Yahoo, as Principal Member of Technical Staff at AT&T Labs – Research, and as associate professor in the Computer Science Department at Stony Brook University in Stony Brook, NY. She holds a Ph.D. in computer science from the University of Rochester, and has authored or co-authored over 100 papers on natural language processing, and is co-inventor on over 30 patents. Stent is one of the inaugural editors-in-chief of [ACL Rolling Review](#), a board member of [CRA-WP](#) and an [ABET](#) program evaluator. She also currently serves on the National Academies Committee studying [Responsible Computing Research](#).

We would like to thank Andrea Danyluk for contributions during her service on both the CRA-WP and CRA Board of Directors. Dwarkadas has replaced Danyluk as the CRA-WP representative on the CRA Board.



Amanda Stent



Sandhya Dwarkadas



Andrea Danyluk

## CRA Board of Directors

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**Heather Wright**, Associate Director, Center for Evaluating the Research Pipeline  
**Helen Wright**, Senior Program Associate, Computing Community Consortium  
**Evelyn Yarzebinski**, Senior Research Associate

## Column Editor

Expanding the Pipeline  
**Patty Lopez**, New Mexico State University



## Arizona State University

### *Lecturer (all ranks) in Computer Science*

The School of Computing, Informatics, and Decision Systems Engineering (CIDSE) in the Ira A. Fulton Schools of Engineering at Arizona State University (ASU) seeks applicants for a full-time lecturer position beginning January 2022. CIDSE has locations on the Tempe and Polytechnic Campuses so some travel between locations should be expected. However, most teaching assignments are likely to be courses in CIDSE's online Masters degree program. This is a non-tenure track appointment with a fixed term academic year contract. Appointments will be made at the rank of Principal Lecturer, Senior Lecturer or Lecturer commensurate with the candidate's experience and accomplishments. Opportunities exist to augment the academic year salary by assisting with summer instruction.

The successful candidate for this position will have a demonstrated record of excellence in teaching that incorporates active learning. Given the teaching will be at the master's degree level, the successful candidate will have advanced knowledge in specialized topics such as Artificial Intelligence, Machine Learning, Big Data, Programming Languages, Cybersecurity, and Software Engineering. Lecturers also contribute to the service mission of CIDSE programs through student outreach activities, service on committees, and industry engagement activities. Faculty are also expected to remain engaged through professional development and external services.

A minimum of a M.S. in Computer Science, Software Engineering, Computer Engineering or a related discipline is required. Preference will be given to those candidates with a PhD or near completion PhD by the time of appointment with proven teaching skills in an online format. A commitment to work collaboratively with a diverse student population is also desirable.

Application deadline is October 15, 2021.

Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled. Apply at <https://hiring.engineering.asu.edu/>. Candidates will be asked to submit the following through their Interfolio Dossier:

- Cover letter
- Current CV
- Statement describing teaching interests
- Evidence of excellence in teaching and innovation
- Evidence of curriculum and/or program development
- Contact information for at least three references
- Diversity Statement

For further information or questions about this position please contact Prof. Kurt VanLehn ([kurt.vanlehn@asu.edu](mailto:kurt.vanlehn@asu.edu))

A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive

consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other basis protected by law.

(See <https://www.asu.edu/aad/manuals/acd/acd401.html> and <https://www.asu.edu/titleIX/>.)

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU's Annual Security and Fire Safety Report is available online at <https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf> You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456.

## BNU-HKBU United International College

*now invites candidates for this position which is expected to be filled in February/September 2022:*

*Full Professor/Associate Professor/ Assistant Professor in Artificial Intelligence*

### **Job Description**

Candidates with expertise in one or more of the following areas: Artificial intelligence, computer vision and pattern recognition, image processing, natural language processing, virtual reality and game, robotics, software engineering, programming languages, multimedia, computer graphics, and visualization, etc.

### **Job Requirement**

Candidates should have a PhD degree in related discipline. Successful candidates are expected to be committed to excellence in undergraduate or postgraduate teaching and research. Preference will be given to candidates who can undertake independent research leading to outstanding outcomes, including publications in high quality international-refereed journals. Academic rank will be determined in accordance with successful candidate's experience and research accomplishments.

## Benefits

Salary commensurate with qualifications and relevant experience. Fringe benefits include housing allowance, leave and social insurance.

## Appointment Terms

Appointment to this position will initially be made on a fixed-term contract of two years. Continuation of appointment beyond the initial term will be subject to mutual agreement.

## Application Procedures

\*Please complete the job application form and upload the requested documents online: <https://hrapp.uic.edu.cn/recruit/job/vacancy/JobDetail/539>.

\*If you failed to submit your application online, please send your application by emailing to [recruit@uic.edu.cn](mailto:recruit@uic.edu.cn). Applications should include a curriculum vitae and a completed "Job Application Form" which can be downloaded from [https://hro.uic.edu.cn/Job\\_Opportunities/\\_Application\\_Procedure.htm](https://hro.uic.edu.cn/Job_Opportunities/_Application_Procedure.htm). Please indicate the position being applied for, including the field of expertise, level and reference number.

## Boston Children's Hospital/ Harvard Medical School

### *Postdoctoral research fellow - Computational Health Informatics Program*

The Health NLP lab at Harvard Medical School and Boston Children's Hospital has two openings for postdoctoral research fellows. These positions are supported by federal research grants, with the goal of developing novel NLP methodology on biomedical and clinical text data, to answer important questions about human health and disease.

Required qualifications:

- Ph.D. in computer science, clinical informatics, or related field
- Knowledge of deep learning models and tools for NLP
- Scientific writing skills and publication history

Positions are available immediately, so applications will be accepted on a rolling basis. If you are interested, please send an email introducing yourself with attached CV to:

Guergana Savova ([guergana.savova@childrens.harvard.edu](mailto:guergana.savova@childrens.harvard.edu)) and Timothy Miller ([timothy.miller@childrens.harvard.edu](mailto:timothy.miller@childrens.harvard.edu))

## Boston College Morrissey College of Arts and Sciences

### *Fitzgerald Chair in Data Science*

The Morrissey College of Arts and Sciences at Boston College invites applications for a senior scholar to serve as the inaugural

Fitzgerald Chair in Data Science. We are seeking a scholar whose area of expertise is in data science broadly understood. A Ph.D. in Computer Science, Mathematics, Statistics or another appropriate field is required. Applicants should present a distinguished record of publication and teaching experience in areas related to data science, as well as the energy and vision to allow them to take a leading role in Boston College's efforts to develop an undergraduate interdisciplinary data science academic program animated by the mission of the Schiller Institute for Integrated Science and Society. More information about the Schiller Institute can be found here: <https://www.bc.edu/bc-web/centers/schiller-institute.html>

The appointment will be a tenured position at the rank of full Professor in the Computer Science Department, with a preferred start in advance of the Fall 2022 semester.

Applications should be submitted electronically to Interfolio.

To apply go to: <http://apply.interfolio.com/94249>

Applicants must submit a letter of application, curriculum vitae, a research statement, a statement of teaching philosophy and interests, and the names and contact information for three references. Nominations and inquiries can be sent via email to Howard Straubing, Chair, Fitzgerald Chair Search Committee, Morrissey College of Arts and Sciences, Boston College, [howard.straubing@bc.edu](mailto:howard.straubing@bc.edu).

Our review of applications will begin on October 1, 2021 and will continue until the

position is filled. Boston College conducts background checks as part of the hiring process.

## Equal Employment Opportunity Statement

Boston College conducts background checks as part of the hiring process.

Boston College is an affirmative action, equal opportunity employer. In concert with our Jesuit, Catholic mission, Boston College is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment and strongly encourages applications for women, minorities, individuals with disabilities, and covered veterans.

## Bowdoin College

### Lecturer in Computer Science

The Department of Computer Science at Bowdoin College invites applications for the position of Lecturer starting July 1, 2022. The initial appointment will be three years, contingent on successful review after the first year, with the possibility of additional renewal upon subsequent reviews. We desire to fill this position with someone who (1) is an excellent teacher with a passion for computer science; (2) has a keen interest in computer science pedagogy, and (3) is excited to teach a diverse set of courses. The lecturer will keep abreast of advances in computer science pedagogy and use this expertise to support pedagogical innovation at Bowdoin. The teaching load for this

position is five courses per year, generally two introductory-level courses and three intermediate courses. Ph.D. preferred; master's degree accepted.

Bowdoin provides strong support for faculty teaching and mentoring through the Baldwin Center for Learning and Teaching, the Colby Bates Bowdoin Pedagogy Matters collaboration, and the Office of the Dean for Academic Affairs, including teaching consultations and workshops, with a particular focus on designing and implementing intentional, inclusive, equitable, and effective learning environments for students.

Bowdoin is a learning community that warmly welcomes people of all backgrounds. We encourage applications from candidates committed to the instruction and support of a diverse student population and from those who will enrich and contribute to the College's multifaceted diversity. We especially encourage candidates from historically excluded groups to apply.

Bowdoin College accepts only electronic submissions.



The Department of Electrical & Computer Engineering (ECE) at Boston University (BU) anticipates multiple openings for **Tenure-Track Assistant Professors**, pending approval by the Provost, with an anticipated start date of Fall 2022. While all candidates will be considered, this year's searches are particularly focused on the following areas:

**Applied AI and Machine/Deep Learning for Computer Vision and Computational Imaging Systems** including candidates in all areas of computer vision or computational imaging, with potential applications to image and video analysis and enhancement, biomedical imaging, robotics, autonomous systems, surveillance, biometrics, or manufacturing.

**Computer Architecture and Systems** including candidates in computer architecture, operating systems, compilers, cybersecurity or software engineering to build future cloud and edge computing systems for a smart, secure and connected society. Potential application areas include healthcare, communications, transportation, finance, and scientific computing.

We are looking for outstanding candidates who have earned or are expected to earn a Ph.D. in the relevant search area before Fall 2022, demonstrate potential for leading an independent and vibrant funded research program in their area of expertise, can teach effectively at the graduate and undergraduate levels, and can utilize their expertise to strengthen collaborative research within the department and beyond.

For more information about BU ECE, and to apply, please visit: <http://www.bu.edu/ece/> Applicants should submit a brief letter of interest, a statement of research accomplishments and goals including how collaborations can enhance their research impact, teaching and diversity statements, a current CV, and contact information of three references using the appropriate link below. We encourage candidates to apply early. Applications received by **December 15, 2021** will be given full consideration. Boston University is an Equal Opportunity Affirmative Action Employer.

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

Please visit <https://careers.bowdoin.edu> to submit: 1) a cover letter; 2) a curriculum vitae; 3) a statement that describes your teaching philosophy and how your teaching, scholarship, and mentorship supports our commitment to equity and inclusion (for more information on this approach, please see <https://www.aacu.org/making-excellence-inclusive>); 4) the names and contact information for at least three references who have agreed to provide letters of recommendation upon request.

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

Founded in 1794 on the Maine coast, Bowdoin is one of the oldest and most selective coeducational, residential liberal arts colleges in the country. Bowdoin's reputation rests on the excellence of its faculty and students, its intimate size, strong sense of community, commitment to diversity (36% students of color, 7% international students and approximately 15% first-generation college students), and treasured links with the people, history, and natural beauty of Maine. Bowdoin College is committed to equality and is an equal opportunity employer. We encourage inquiries from candidates who will enrich and contribute to the cultural and ethnic diversity of our college. Bowdoin College does not discriminate on the basis of age, race, creed, color, religion, marital status, gender identity and/or expression, sexual orientation, veteran status, national origin, or disability status in employment, or in our education programs.

For further information about the department, the College, and Midcoast Maine, see our website <http://www.bowdoin.edu/>.

## Brown University

### *Professor of Cybersecurity and International and Public Affairs*

The Watson Institute for International and Public Affairs at Brown University invites applications for a faculty position in "cyber and security" to begin in July 2022. We are seeking applicants whose research focuses on various aspects of the intersection between cyber technologies and human security. Research of interest includes, but is not limited to, topics such as the impact of algorithm-based surveillance on marginalized communities, the strategic manipulation of cyber information for geopolitical gain, the intersection between social media and surveillance, the implications of autonomous weapon systems and drone warfare, and the development of offensive and defensive cyber weaponry.

This faculty position will involve a joint appointment between the Watson Institute and a relevant tenure-granting disciplinary department at Brown. We are seeking applicants who have both proven technical expertise and the ability to engage existing areas of strength in the Watson Institute. We welcome applicants with doctoral degrees from all relevant disciplines, including STEM fields (e.g., Computer Science, Applied Mathematics) and the social sciences (e.g., Sociology, Economics, Political

Science, Anthropology, History, Africana Studies). The Watson Institute is especially interested in qualified candidates who can contribute through their research, teaching, and service to the diversity and excellence of the academic community.

Candidates at all ranks are welcome. A successful senior candidate must have an outstanding record of scholarly achievement, a proven record of successful research funding, and a demonstrated commitment to undergraduate and graduate teaching and advising. A successful junior candidate must be engaged in a research program with the potential to influence their field, and a strong commitment to undergraduate and graduate teaching and advising.

Junior candidates must have completed the PhD by the time of appointment. Review of applications will begin November 22, 2021, but applications will be accepted until the position is filled.

All candidates should submit: 1) a cover letter describing research completed and planned, 2) a curriculum vitae, 3) a short writing sample, and 4) a teaching statement. We ask that in both the cover letter and teaching statement, the candidate describe how their work fosters inclusive learning and diversity.

Senior candidates should include the names of five references whom the search committee can contact at an appropriate time. The list of references can be submitted via the "additional documents" field in Interfolio.

Junior candidates should have three letters of reference and their official graduate transcript uploaded to Interfolio at the time of the application. The confidential recommendation letters should be uploaded to Interfolio by the referee.

Brown University is committed to fostering a diverse and inclusive academic global community; as an EEO/AA employer, Brown considers applicants for employment without regard to, and does not discriminate on the basis of, gender, race, protected veteran status, disability, or any other legally protected status.

Apply here: <http://apply.interfolio.com/90590>

## Bryn Mawr College

*Department of Computer Science*

*Assistant Professor*

The Department of Computer Science at Bryn Mawr College invites applications for a full-time, tenure-track Assistant Professor position to begin August 1, 2022. We are seeking candidates specializing in any of the following areas: theory, algorithms, or systems. The successful candidate will contribute to the development and teaching of a diverse and inclusive undergraduate curriculum, including interdisciplinary programs and college-wide initiatives such as the 360 Program and the Emily Balch Seminars. The candidate will be expected to teach courses at all levels of the undergraduate program in computer science and to establish an active and successful research program. Candidates must have completed all Ph.D. requirements

in Computer Science or a closely related field by the start date.

To apply for this position, candidates must submit a cover letter, curriculum vitae, teaching philosophy, research statement, and statement of demonstrated commitment to diversity and inclusion to the Computer Science Search Committee via Interfolio at: <https://apply.interfolio.com/90015>. In addition, arrange for three letters of recommendation to be submitted via Interfolio to the Computer Science Search Committee.

Applications will be accepted until the position is filled. Applications received by October 18, 2021 will receive full consideration.

Recognizing health and safety concerns during this time, the College will be as flexible as possible in determining the nature of any interviews or meetings (virtual/remote and/or in-person interaction) that are conducted for this search.

Bryn Mawr College is a distinguished liberal arts college for women with a vibrant faculty of scholar-teachers, a talented staff, and intellectually curious students eager to make a difference in the world. The College is committed to increasing the diversity of its students, faculty, staff, and curricular offerings with a particular focus on enhancing ethnic and racial diversity and advancing social justice and inclusion. We believe diversity strengthens our community and enriches the education of our students. We have a student body of 1,300 undergraduates (32 percent are U.S. students of color and 19 percent are international students). There are 340 graduate students

in coeducational graduate programs in social work, humanities, and science. Bryn Mawr College is located in metropolitan Philadelphia and enjoys strong consortial relationships with Haverford College, Swarthmore College, and the University of Pennsylvania. Bryn Mawr College is an equal-opportunity employer; candidates from underrepresented groups and women are especially encouraged to apply.

## Carnegie Mellon University School of Computer Science

*Faculty Hiring*

*SCS CRA AD 2021*

The School of Computer Science at Carnegie Mellon is the world's leading college in academic research and education. The college houses seven departments: Computational Biology, Computer Science, Human-Computer Interaction, Software Research, Language Technology, Machine Learning, and Robotics.

SCS is seeking to fill several faculty positions, across all departments, in all tracks and at all levels, with joint appointments when appropriate. The four faculty tracks in our College include: tenure, research, systems and teaching tracks. We are seeking candidates with a strong interest in research, an earned Ph.D. (in computer science or relevant field), and outstanding academic credentials. Such candidates must possess the ability to collaborate with other faculty in a fast-paced environment. Candidates for tenure and teaching track appointments should also have a strong interest in

graduate and undergraduate education and therefore must be prepared to teach in a wide variety of settings, for example, large undergraduate lecture courses and classes delivered in non-traditional formats. Research track faculty are not required to teach and generally focus most or all of their effort on cutting-edge research. Systems Track similarly teach only on an exception basis and focus all or most of their effort on making novel systems.

Candidates with a commitment toward building an equitable and diverse scholarly community are particularly encouraged to apply. We continuously seek to improve the diversity of our student, staff and faculty populations, including and especially through annual faculty hiring processes.

Each department's hiring committee thoroughly reviews the qualifications of every applicant, and are particularly enthusiastic about applicants whose background and experiences would make them unique among our faculty. Applications from candidates who have a demonstrated track record in mentoring and nurturing women and students from groups traditionally underrepresented in computer science are strongly encouraged.

We will begin accepting applications beginning August 2, 2021.

To ensure full consideration of your application, please submit all materials no later than December 8, 2021. In your cover letter, please indicate clearly the department(s) you are applying to. You can learn more about our hiring plans and application instructions by

visiting <https://scsdean.cs.cmu.edu/faculty-hiring> IMPORTANT: At this site you will find guidance regarding specific timelines for review of applications in each of our departments.

Please send email to [faculty-search@cs.cmu.edu](mailto:faculty-search@cs.cmu.edu) with any questions.

Carnegie Mellon University shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

## Case Western Reserve University, Cleveland, Ohio

### *Faculty Position in Department of Computer and Data Sciences*

The Department of Computer and Data Sciences in the Case School of Engineering at Case Western Reserve University (CWRU) invites applications for a tenure-track faculty position.

This search prioritizes Assistant and Associate Professor candidates in Artificial Intelligence, Machine Learning, Algorithmic Fairness, Data Science, and Computer

Systems. However, we will consider exceptional candidates at all ranks and in all areas of Computer and Data Sciences. In addition to foundational research, candidates with collaborative research programs in applied areas of Computer and Data Sciences are encouraged to apply.

The Department of Computer and Data Sciences was formed in 2019 out of the Department of Electrical Engineering and Computer Science, with the vision that computing and data sciences will play a central role in interdisciplinary research and education throughout the university.

**For more information and to submit an application, please visit <https://engineering.case.edu/computer-and-data-sciences/employment>**

CWRU provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should call 216-368-3066.

## Colgate University

### *(2) Tenure Track Positions/Assistant Professor of Computer Science*

The Department of Computer Science at Colgate University invites applications for two tenure-stream positions at the rank of Assistant Professor, beginning fall semester 2022. A Ph.D. in computer science or a related field is required at the time of appointment or shortly after. We expect applicants to be committed to excellence in undergraduate teaching and in research.

We encourage candidates from all areas of computer science to apply. We are interested in candidates who are enthusiastic to teach in our computer science curriculum at all levels and to develop new courses in their area(s) of expertise. We welcome applications from candidates with cross-disciplinary expertise related to the **Middle Campus Initiative for Arts, Creativity, and Innovation** and/or related to the Robert H. N. Ho Mind, Brain, and Behavior Initiative, which are part of Colgate's **Third-Century Plan**. We seek applicants that complement and broaden the department program, through teaching, research or service.

Teaching responsibilities for each semester consist of two course sections plus one or two labs (for a total of three labs over the academic year). Successful candidates will be productive scholars and teach courses in their areas of expertise, departmental courses and the **Liberal Arts Core Curriculum**.

Review of applications will begin October 20, 2021. Applications will continue to be accepted after this date until both positions are filled. Applications must include a cover letter, curriculum vitae, teaching statement, research statement, diversity and inclusion statement, and the names of three writers of letters of recommendation. Candidates should include in their teaching statement courses they are interested in teaching. At least one of the letters of reference should speak to the candidate's promise as a teacher.

Candidates should describe in the diversity and inclusion statement how their approach to teaching, scholarship and/or mentorship



## Cornell Bowers CIS Information Science



**Cornell Information Science is Hiring!**

### LONG-TERM LECTURER OR SENIOR LECTURER Ithaca, NY campus

**Welcoming applicants specializing in...**

- Web Programming and Design
- Data Science
- Information Visualization
- Network Science
- Information Ethics, Law, and Policy

**TO APPLY, VISIT**  
[academicjobsonline.org/ajo/jobs/19577](https://academicjobsonline.org/ajo/jobs/19577)

**Application deadline:** November 15, 2021  
**Questions?** [fac\\_recruit@infosci.cornell.edu](mailto:fac_recruit@infosci.cornell.edu)

might support the university's **Plan for Diversity, Equity and Inclusion**. Colgate strives to be a community supportive of

diverse perspectives and identities and to make all students feel welcome, respected, and fully included in the classroom.

Colgate University is a vibrant liberal-arts college of 3200 undergraduate students situated in a picturesque village in central New York. The department offers a strong and diverse student body and state-of-the-art teaching and research facilities, and the university is committed to promoting excellence in both teaching and research. Faculty members have access to funding for travel, research supplies, and academic-year and summer student researchers. For more information about the department and the position, please visit our website at <https://www.cs.colgate.edu>.

It is the policy of Colgate University not to discriminate against any employee or applicant for employment on the basis of their race, color, creed, religion, age, sex, pregnancy, national origin, marital status, disability, protected Veterans status, sexual orientation, gender identity or expression, genetic information, being or having been victims of domestic violence and stalking, familial status, or any other categories covered by law. Colgate is an Equal Opportunity/Affirmative Action employer. Candidates from historically underrepresented groups, women, persons with disabilities, and protected veterans are encouraged to apply. We welcome dual-position applications; in this case, each candidate should submit a separate application. Applicants with dual-career considerations can find postings of employment opportunities at Colgate and at other institutions of higher education in upstate New York at <http://www.upstatenyherc.org>. Disclosure of dual-career considerations is entirely at the discretion of the applicants.



Cornell Bowers C-IS  
**Information Science**

**CORNELL  
TECH** | HOME OF THE JACOBS  
TECHNION-CORNELL  
INSTITUTE



**Cornell Information Science is Hiring!**

## TENURE-TRACK AND TENURED FACULTY Cornell Tech campus, NYC

**Welcoming applicants specializing in...**

- Design and Technology
- Fairness, Accountability, and Transparency in Computational Systems

**TO APPLY, VISIT**  
[academicjobsonline.org/ajo/jobs/19575](https://academicjobsonline.org/ajo/jobs/19575)

**Application deadline:** December 1, 2021  
**Questions?** [fac\\_recruit@infosci.cornell.edu](mailto:fac_recruit@infosci.cornell.edu)



Submit applications at <https://academicjobsonline.org/ajo/jobs/19581>.

Please direct questions to the search

committee chair, Elodie Fourquet, at [efourquet@colgate.edu](mailto:efourquet@colgate.edu).



## Cornell University

*Tenured/Tenure-Track Faculty-  
Computer Science*

The Cornell University Department of Computer Science (CS) in the Cornell Bowers CIS College of Computing and Information Science has multiple faculty positions available at its Ithaca campus (tenured and tenure-track). CS is ranked among the top computer science departments in the country (<http://www.cs.cornell.edu/>). Ithaca, NY is in the heart of the Finger Lakes region, which offers a vibrant cultural life and a wide range of sporting and outdoor activities with the pleasures of both city and country close at hand.

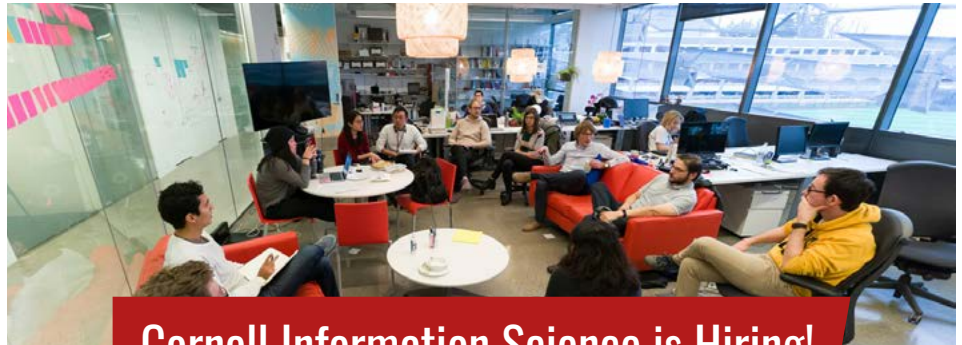
Applications from all areas of computer science and related fields are welcome.

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

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



Cornell Bowers CIS  
**Information Science**



**Cornell Information Science is Hiring!**

## TENURE-TRACK AND TENURED FACULTY Ithaca, NY campus

**Welcoming applicants specializing in...**

- Computational, Theoretical, or Mathematical Approaches to Information Science Research
- Network Methods
- Mechanism Design
- Game Theory
- Computational Social Choice

**TO APPLY, VISIT**  
[academicjobsonline.org/ajo/jobs/19576](https://academicjobsonline.org/ajo/jobs/19576)

**Application deadline:** December 1, 2021  
**Questions?** [fac\\_recruit@infosci.cornell.edu](mailto:fac_recruit@infosci.cornell.edu)

To ensure full consideration, applications should be received by December 1, 2021, but will be accepted until all positions are filled.

Fostering an inclusive environment is a core value of the Computer Science Department and Cornell as a whole. In line with Cornell's historical

commitment to educating “... *any person ... in any study...*”, we seek candidates who will create a climate that helps attract and is inclusive of all students, including students from historically underrepresented groups and students who have overcome personal challenges. We strongly encourage women and underrepresented minorities to apply. Applicants are asked to submit a Statement of Contribution to Diversity, Equity and Inclusion to describe their potential contributions to diversity and inclusion. See <http://facultydevelopment.cornell.edu/information-for-faculty-candidates/> for the university’s commitment to diversity, equity, and inclusion, including suggestions for what we are looking for in such statements, and see <https://cis.cornell.edu/diversity> for some CIS activities in this area.

Applicants should submit a curriculum vitae, a diversity statement, and brief statements of research and teaching interests, identify one or two top publications to which they have made significant contributions, and arrange to have at least three reference letters submitted at: <https://academicjobsonline.org/ajojobs/19220>.

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

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

Diversity and Inclusion are a part of Cornell University’s heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities. We also recognize a lawful preference in employment practices for Native Americans living on or near Indian reservations. Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students, and staff impart an uncommon sense of larger purpose, and contribute creative ideas to further the university’s mission of teaching, discovery, and engagement.

## Dartmouth College

### *Assistant Professor of Computer Science*

The Computer Science Department at Dartmouth College invites applications for two tenure-track positions at the level of Assistant Professor. We will consider candidates whose research focus is in Computer Vision, Machine Learning, or any subfields of Machine Learning, including but not limited to: foundations of machine learning, machine perception, health, natural language processing, robotics, human-computer interaction, and graphics.

The Computer Science department is home to 22 tenured and tenure-track faculty members and three research faculty members, and is committed to working towards a significant expansion in that number over the next decade, in

a new dedicated Computer Science and Engineering Center whose construction is scheduled to be complete in 2021. The department has strong Ph.D. and M.S. programs and outstanding undergraduate majors. We are particularly interested in applicants who have a demonstrated ability to contribute to Dartmouth’s diversity initiatives in STEM research, such as the Women in Science Program, E.E. Just STEM Scholars Program, and the Academic Summer Undergraduate Research Experience (ASURE).

Please see Interfolio link for more information or to apply: [apply.interfolio.com/92918](http://apply.interfolio.com/92918)

## Dartmouth College

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

The Dartmouth College Department of Computer Science invites applications for a full-time tenured faculty position at the rank of Associate or Full Professor. We seek qualified candidates who will be excellent researchers and teachers in the broad range of areas related to cybersecurity, as part of a cluster of hires the college has made in the area of cyber-security. We particularly seek candidates who will help lead, initiate, and participate in collaborative research projects within Computer Science and beyond, including Dartmouth researchers from other Arts & Sciences departments, Geisel School of Medicine, Thayer School of Engineering, and Tuck School of Business.

The Computer Science department is home to 22 tenured and tenure-track faculty members and three research faculty members, and is committed to working towards a significant expansion in those numbers over the next decade, in a new dedicated Computer Science and Engineering Center whose construction is scheduled to be complete in 2021. Research areas of the department encompass the areas of security, computational biology, machine learning, robotics, systems, algorithms, theory, digital arts, vision, and graphics. The Computer Science department has strong Ph.D. and M.S. programs and outstanding undergraduate majors. The department's security faculty members are affiliated with Dartmouth's Institute for Security, Technology, and Society (ISTS), which also involves faculty from Government, Engineering, Sociology, and Business.

For more information or to apply, please visit Interfolio here: [apply.interfolio.com/93523](https://interfolio.com/93523)

## Dartmouth College Neukom Fellows

### Call for Applications

The Neukom Institute for Computational Science at Dartmouth College is pleased to announce the Neukom Postdoctoral Fellows competition for positions starting September 1, 2022.

Neukom Fellows are interdisciplinary positions for recent Ph.D.s, DMAs, or MFAs whose research interests or practice

cuts across traditional disciplinary boundaries, and has some computational component, whether it be a framing

concept for intellectual exploration or an explicit part of the work that is pursued. The successful candidate should have



### Computer Science Faculty Positions: All Ranks

**EMORY UNIVERSITY**  
Atlanta, Georgia

The Computer Science Department at Emory University is continuing to advance research and education at the frontiers of computing and data science, and seeks outstanding colleagues.

Emory CS is a vibrant department with high impact research in data-related areas including AI, ML, IR, NLP, HCI, data/graph mining, security, privacy, and high-performance computing. CS scholars collaborate extensively across multiple disciplines including health, social, and natural sciences to explore computational approaches to important challenges. Our faculty is passionate about scholarship, teaching, and social responsibility. The Department is committed to positive societal impact through CS scholarship, prides itself on a family-friendly, supportive, dual-career environment, and engages deeply with industry, alumni, and community. We are committed to broadening participation in computing, and especially encourage applications from women and members of underserved groups. For additional information please see <http://www.cs.emory.edu>

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

**Applications for Tenure-Track/Tenured Positions** are invited from exceptional candidates with outstanding research and teaching records. Appointments are possible at the beginning- or advanced-tenure-track *Assistant Professor* level, or at tenured *Associate/Full Professor* levels.

Applicants must have a PhD in Computer Science or a closely related field. Research areas of particular interest include: (1) *Intelligent Systems* (artificial intelligence, machine learning, natural language processing, knowledge mining); (2) *Data Management* (privacy/security, information visualization/human-computer interfaces, data analytics); and (3) *Emerging Areas* (e.g. social impact computing, human-centered computing, HPC/exascale systems). We especially welcome candidates who connect to current strengths in CS, and to the health, social, and natural sciences.

Applications comprising a cover letter, CV, research and teaching statements, and three letters of recommendation, are invited via <https://apply.interfolio.com/93815/>. In a separate statement, please also outline your interests in enhancing diversity, equity, and inclusion. Informal inquiries are welcome via email to the department chair at [vss@emory.edu](mailto:vss@emory.edu). Review of applications will begin December 1, 2021. Full consideration will be given to applications received up to at least 30 days after review begins, until the position is filled.

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

a history of collaborative work across disciplines, but still show evidence of independence and initiative. They must have their Ph.D. in any discipline or expected by September 2021, DMA or MFA. The Fellowships are two year appointments.

Neukom Fellows will be mentored by faculty in two departments at Dartmouth College, take up residence in one department, and will teach one seminar course each year on a subject of their interest. Beyond that there are no additional duties. Neukom Fellow stipends are \$60,000. Additional funds are available for equipment, travel, and research materials.

Applications must be submitted here:  
<http://academicjobsonline.org/ajol/jobs/19019>

## Hampden-Sydney College

### Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at Hampden-Sydney College invites applications for a tenure-track Assistant Professor of Computer Science position beginning August 2022.

For more details and to apply, see:  
<https://apply.interfolio.com/92092>.



### Teaching Faculty in Computer Science

*Emory University, Atlanta, Georgia*

The Computer Science Department at Emory University in Atlanta, Georgia invites applications for lecture track faculty to begin in Spring or Fall 2022. Appointments are for three-year terms as Lecturer or five-year terms as Senior Lecturer and are renewable within the *Lecture Track*, which carries full benefits, governance rights and responsibilities as described in the Emory College Lecture Track Guidelines: <http://college.emory.edu/faculty/faculty/promotion-lecture-track.html>

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

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

Applicants should have a PhD in Computer Science or a related discipline, and outstanding teaching, advising, and service credentials (or potential) related to our undergraduate programs. Responsibilities include 1) teaching five courses per year; 2) student advising and mentoring; 3) curriculum enhancement; and 4) supporting the educational mission of the College through program participation. Research is not a required element in the LTF track, but all forms of intellectual explorations and scholarly activities are strongly encouraged and supported.

Applications consisting of a cover letter, CV, statement of teaching philosophy and career goals, evidence of teaching excellence, and a minimum of three letters of recommendation should be submitted via <https://apply.interfolio.com/93444/>. In a separate statement, please also outline your interests in broadening participation and increasing diversity in computing. Informal inquiries are welcome, and invited by email to the department chair at [yss@emory.edu](mailto:yss@emory.edu). Review of applications will begin November 1, 2021. Full consideration will be given to applications received up to at least 30 days after review begins, until the position is filled.

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



## Founding Tenured/Tenure-Track Faculty in Computer Architecture and System

The Hong Kong University of Science and Technology (HKUST) is a leading international university ranked 1<sup>st</sup> by Times Higher Education Young University Rankings 2020 and 27<sup>th</sup> by QS World University Rankings 2021. HKUST establishes a new campus in Guangzhou, China ([hkust-gz.edu.cn](http://hkust-gz.edu.cn)). The Guangzhou campus synergizes with and maintains the same academic standard as the Clear Water Bay campus. Microelectronics Thrust is an academic department focusing on theories and technologies for novel circuits, architectures, systems, and design automations.



Microelectronics Thrust has multiple tenured/tenure-track positions at the ranks of Assistant Professor, Associate Professor, and Professor. Applicants should have a PhD degree and research in areas such as [processor, memory, and storage system architecture](#); [reconfigurable architecture](#); [interconnection network](#); [multiprocessor system](#); [neural computing](#); [approximate computing](#); [quantum computing](#); [hardware-software codesign](#); [compilation techniques](#); [operating system](#); [system software](#); [power management](#); [thermal management](#); [embedded system](#); [system-on-chip](#); [system-in-package](#); [electronic design automation](#); [photonic design automation](#); [integrated photonic circuit](#); [RF/mm-Wave/terahertz technology](#); [modeling and simulation technology](#); [emerging technology](#). English is the instruction and administration medium at the Guangzhou campus, and a good command of written and spoken English is required.

- Applicants of tenure-track Assistant Professor should demonstrate strong research and teaching potentials.
- Applicants of Associate Professor should have a proven record in research, teaching, student supervision, and funding.
- Applicants of Professor should have world-class academic achievements, international academic leadership, and an established track record in teaching, student supervision and funding.

**Salary and Conditions:** Salary is of international standard and highly competitive. Generous research funding, ample laboratory space, and excellent research equipment and support will be provided. All the positions are tenured/tenure-track appointments in mainland China and offered by the HKUST mainland entity in accordance with the local employment laws and regulations. The appointments to Full Professor and some Associate Professor will be made on substantive basis. The initial appointments to Assistant Professor will be made on a fixed-term contract of up to three years, and re-appointments thereafter will be subject to performance and mutual agreement.

**Application Procedure:** Applications should be submitted at <https://facrecruit.hkust.edu.hk> which will be open until the positions are filled. If there is any question, please contact the Acting Head, Prof. Jiang Xu, at [jiang.xu@ust.hk](mailto:jiang.xu@ust.hk). HKUST is committed to equal opportunity and diversity in recruitment and employment. We strongly encourage candidates of diverse backgrounds to apply.



## Hofstra University

### *Assistant Professor of Computer Science*

The Department of Computer Science at Hofstra University ([www.hofstra.edu/compscience](http://www.hofstra.edu/compscience)) invites applications for two anticipated tenure-track faculty positions at the Assistant Professor level to begin in Fall 2022. Strong candidates in all areas of computer science are welcome to apply. Faculty members are expected to be able to teach a range of courses. Preference will be given to candidates in the areas of cybersecurity and computer engineering, computer architecture, parallel processing, robotics, or embedded systems. Applicants are expected to have completed a PhD in computer science, computer engineering or a closely related field by September 1, 2022.

The programs in the Computer Science Department are experiencing rapid growth, and the successful applicants will contribute to the further development of a top-tier undergraduate educational institution. The department offers BA, BS, and MS degrees in Computer Science, a BS in Computer Engineering, MS in Data Science and BS and MS degrees in Cybersecurity. The BS programs in Computer Engineering and Computer Science are accredited by ABET. Current faculty research interests include biometrics, cloud computing, cybersecurity and privacy, computer vision, cognitive neuroscience, computability, data mining, software engineering, and programming languages. The department has newly updated facilities with 6 labs, including a “big data” lab with 20 servers, a 64 CPU machine and IPB storage.

Interested applicants should send:

- a cover letter indicating why Hofstra is a good fit,
- a curriculum vitae,
- a statement of teaching,
- a statement of current research interests and anticipated future research projects, and
- two sample publications

in a single PDF to the Search Committee Chairperson at: [SEAS4@hofstra.edu](mailto:SEAS4@hofstra.edu). Also, please arrange to have three letters of academic reference sent to the same email address (include their names/email addresses in the cover letter).

Hofstra University is an equal opportunity employer, committed to fostering diversity in its faculty, administrative staff and student body, and encourages applications from the entire spectrum of a diverse community.

## Indiana University-Purdue University

### *The Purdue School of Engineering and Technology*

#### *Assistant Professor with focus in Cybersecurity*

The Purdue School of Engineering and Technology, Indiana University–Purdue University Indianapolis (IUPUI) invites applications for one tenure-track position in the Department of Computer Information and Graphics Technology. The start date is anticipated to be either January 1, 2022 or August 1, 2022. Applicants should have a

strong record of research, show significant potential for establishing and sustaining an externally funded research program, be committed to teaching both undergraduate and graduate courses, and mentoring M.S. and Ph.D. students.

We are interested in applicants whose research focuses on Cybersecurity. Applicants whose research applies Cybersecurity to existing School strengths, such as Intelligent Transportation, IoT, Artificial Intelligence, and other areas of intelligent systems are strongly encouraged to apply. A doctorate in Computer Science, Computer Engineering, Electrical Engineering, or a related discipline focusing on Cybersecurity is required by the start date of the position.

The Department of Computer Information and Graphics Technology offers several degrees, including a B.S. in Cybersecurity, an M.S. in Cybersecurity and Trusted Systems, and also participates in the Computer Engineering Ph.D. program offered by the Department of Electrical and Computer Engineering.

We seek candidates whose research, teaching, and community engagement efforts contribute to diverse, equitable, and inclusive learning and working environments for our students, staff, and faculty. IUPUI condemns racism in all its forms and has taken an anti-racist stance that moves beyond mere statements to interrogating its policies, procedures, and practices.

Applications must include a letter of interest, curriculum vitae, and a summary of scholarship including research and teaching interests, and contact information for at least three references.

Apply for this position at <https://indiana.peopleadmin.com/postings/11332>

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.

## Institute of Science and Technology Austria

*Professor (tenure-track) and Professor positions in Computer Science and Data Science*

The Institute of Science and Technology Austria invites applications for several open positions in all areas of computer science and data science.

We especially welcome applications in statistics, machine learning, optimization, bioinformatics, scientific computing, computer systems, control theory, and robotics.

We offer:

- A highly international and interdisciplinary research environment with English as working language on campus
- State-of-the-art facilities and scientific support services ([www.ist.ac.at/scientific-service-units](http://www.ist.ac.at/scientific-service-units))
- Substantial start-up package and attractive salary
- Guaranteed annual base funding including funding for PhD students and postdocs
- An international Graduate School with high admissions criteria and a rigorous training program

- Leadership program
- Employee Assistance Program
- Dual Career support packages
- Child-care facilities on campus (for children aged 3 months till school age)

IST Austria ([www.ist.ac.at](http://www.ist.ac.at)) is an international institute dedicated to basic research and graduate education in the natural, mathematical, and computational sciences. The Institute fosters an interactive, collegial, and supportive atmosphere, sharing space and resources between research groups whenever possible, and facilitating cross-disciplinary collaborations. Our PhD program involves a multi-disciplinary course schedule and rotations in research groups, and we hire scholars from diverse international backgrounds. The campus of IST Austria is located close to Vienna, one of the most livable cities in the world.

Assistant professors receive independent group leader positions with an initial contract of six years, at the end of which they are reviewed by international peers. If the evaluation is positive, an assistant professor is promoted to a tenured professor.

Candidates for tenured positions are distinguished scientists in their respective research fields and typically have at least six years of experience in leading a research group.

IST Austria values diversity and is committed to equal opportunities. We strive to increase the number of women, particularly in fields where they are underrepresented, and therefore we strongly encourage female researchers to apply.

Please apply online at: [www.ist.ac.at/jobs/faculty/](http://www.ist.ac.at/jobs/faculty/)

The closing date for applications is October 29, 2021.

For enquiries, please contact [faculty.recruiting@ist.ac.at](mailto:faculty.recruiting@ist.ac.at).

## Johns Hopkins University

*Lecturer/Sr. Lecturer in Computer Science*

The Department of Computer Science at Johns Hopkins University seeks applicants for full-time teaching positions. These are career-oriented, renewable appointments, responsible for the development and delivery of undergraduate and/or graduate courses, depending on the candidate's background. We are searching broadly to meet teaching needs across the discipline, including data science and machine learning. Each position carries a 3-course load per semester, usually with only 2 different preps. Teaching faculty are encouraged to engage in educational research and departmental and university service and may have advising responsibilities. Extensive grading support is given to all instructors. The university has instituted a non-tenure track career path for full-time teaching faculty culminating in the rank of Teaching Professor.

Johns Hopkins is a private university known for its commitment to academic excellence and research. The Computer Science department is one of nine academic departments in the Whiting School of Engineering, on the beautiful Homewood Campus. We are located in Baltimore, MD in close proximity to Washington, DC and Philadelphia, PA. See the department

webpage at <https://cs.jhu.edu> for additional information about the department, including undergraduate and graduate programs and current course descriptions.

Applicants for the position should have a Ph.D. in Computer Science or a closely related field. Demonstrated excellence in and commitment to teaching, and excellent communication skills are expected of all applicants. Applications may be submitted online at <http://apply.interfolio.com/94564>. Questions may be directed to [lecsearch2021@cs.jhu.edu](mailto:lecsearch2021@cs.jhu.edu).

For full consideration, applications should be submitted by December 1, 2021. Applications will be accepted until the position is filled.

The Department is conducting a broad and inclusive search and is committed to identifying candidates who through their teaching and service will contribute to the diversity and excellence of the academic community.

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

## Lawrence Berkeley National Lab

*Software Integration Engineer - 93468*

*Organization: NE-NERSC*

Lawrence Berkeley National Lab's (LBNL, <https://www.lbl.gov>) NERSC (National Energy Research Scientific Computing Center, <https://www.nersc.gov>) Division has an opening for a Software Integration Engineer to join the team. In this exciting role, you will develop and support a software and workflow environment to integrate third-party and user-contributed software packages into the NERSC high-performance computing programming and runtime environments, and automate the Continuous Integration process for NERSC.

To learn more and to apply please visit <http://50.73.55.13/counter.php?id=205177>

## Missouri State University

*Assistant Professor, Computer Science*

The Computer Science Department at Missouri State University invites applications for a tenure track Assistant Professor position starting Fall 2022. The selection process will begin on October 11, 2021 and continue until the position is filled. A PhD in CS or closely related field is required by the date of appointment. Applicants are invited from all research areas of Computer Science, but candidates with interest in teaching algorithms are encouraged to apply. Applicants must show a potential for excellence in teaching at undergraduate and graduate levels. Other expectations include: (1) independent research leading to peer-reviewed discipline related publications and

potential for external funding commensurate with a master's level institution, (2) supervision of student research/thesis/projects, and (3) service to the Computer Science Department, College of Natural and Applied Sciences, Missouri State University, the local/regional community, and the profession. The ability to develop knowledge of, respect for, and skills to engage with those of other cultures or backgrounds is required.

All applicants must submit: (1) a cover letter detailing how they meet the required qualifications and any related experiences, (2) a curriculum vitae, (3) graduate and undergraduate transcripts in English, (4) statement of teaching interests and philosophy, (5) statement of research and external funding plans, (6) copies of two recent or representative peer-reviewed publications, and (7) contact information of at least three references. The letter of application must include a commitment to working with diverse populations.

To learn more, visit <https://jobs.missouristate.edu/postings/57209>.

Employment will require a criminal background check at University expense.

EO/AA/M/F/Veterans/Disability/Sexual Orientation/Gender Identity.

## Missouri State University

*Visiting Professor*

The Computer Science Department at Missouri State University invites applications for a Visiting Assistant Professor position starting Spring 2022.



The selection process will begin on October 11, 2021 and will continue until the position is filled.

A Ph.D. in Computer Science or a closely related field (e.g. Software Engineering, Computer Engineering) is required (ABD will be considered). Applicants from all areas of Computer Science are invited to apply. Excellent oral and written English communication skills are essential.

Applicants must show a potential for excellence in teaching at undergraduate and graduate levels. Other expectations include service to the Computer Science Department, College of Natural and Applied Sciences, Missouri State University, the local/regional community, and the profession. The ability to develop knowledge of, respect for, and skills to engage with those of other cultures or backgrounds is required.

All applicants must submit: (1) a cover letter detailing how they meet the required qualifications and any related experiences, (2) a curriculum vitae, (3) graduate and undergraduate transcripts in English, (4) statement of teaching interests and philosophy, and (5) contact information of at least three references. The letter of application must include a commitment to working with diverse populations.

To learn more, visit <https://jobs.missouristate.edu/postings/57191>.

Employment will require a criminal background check at University expense. EO/AA/M/F/Veterans/Disability/Sexual Orientation/Gender Identity.



## Director of the Carlsbad Environmental Monitoring & Research Center

New Mexico State University (NMSU) invites confidential inquiries and applications for the position of Director of the Carlsbad Environmental Monitoring & Research Center (CEMRC). The Director of this research and monitoring facility in Carlsbad, New Mexico, reports to Dr. Lakshmi Reddi, Ph.D., P.E., Dean of the College of Engineering ([enr.nmsu.edu](http://enr.nmsu.edu)), based at the NMSU campus in Las Cruces. This is an opportunity for an experienced laboratory director to provide leadership and vision for an independent, federally funded research facility affiliated with a public university.

A facility in environmental protection CEMRC ([cemrc.org](http://cemrc.org)) is fully funded, by federal regulation, at least until 2050. This is a stable position with opportunities for growth, particularly given the strength of NMSU's Department of Chemical and Materials Engineering, including the nuclear chemical engineering minor.

The Director must be someone who understands well the technical and scientific aspects of environmental research and monitoring; is experienced in laboratory, fiscal, and personnel management; excels in the public role of communicating with the Carlsbad community and beyond about CEMRC findings; and looks for opportunities to promote the CEMRC.

Academic Search, Inc., is assisting New Mexico State University in the screening and selection process for the next CEMRC Director. The deadline for applications is **September 10, 2021**. For complete details about the position please see the profile available through this link: <https://apptrkr.com/2440421>. Applications, nominations, and expressions of interest must be submitted electronically, in confidence, to [CEMRCDirector@academicsearch.org](mailto:CEMRCDirector@academicsearch.org).



## NYU Shanghai

### *Tenured/Tenure-track Positions in Computer Science*

NYU Shanghai is currently inviting applications for Tenured or Tenure-Track positions in Computer Science. The search is not restricted to any rank and outstanding candidates at all levels are encouraged to apply. We seek candidates who have completed a Ph.D. in Computer Science, or a closely related discipline. We seek candidates in all sub-fields of Computer Science, with particular interest in Human-Computer Interaction (HCI), Operating and Distributed Systems, Blockchain, Quantum Computing, and Deep Learning.

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

Review of applications will begin on January 1, 2022 and will continue until the position is filled. To apply, please follow this link [apply.interfolio.com/93616](https://apply.interfolio.com/93616). If you have any questions, please email the NYU Shanghai NY Office of Faculty Recruitment [shanghai.faculty.recruitment@nyu.edu](mailto:faculty.recruitment@nyu.edu).

Terms of employment at NYU Shanghai are comparable to NYU New York and other U.S. institutions with respect to research start-up funds and compensation, and they

include housing subsidies and educational subsidies for children. Faculty may in certain cases have the opportunity to spend time at NYU New York and other sites of the NYU Global Network, engaging in both research and teaching.

### **About NYU Shanghai:**

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

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

For people in the EU, click here for information on your privacy rights under GDPR: [www.nyu.edu/it/gdpr](https://www.nyu.edu/it/gdpr).

NYU Shanghai is an equal opportunity employer committed to equity, diversity, and social inclusion. We strongly encourage applications from under-represented

individuals in the profession, across color, creed, race, ethnic and national origin, physical ability, and gender and sexual identity. NYU Shanghai affirms the value of differing perspectives on the world as we strive to build the strongest possible university with the widest reach.

## The Ohio State University

### *Tenure Track Faculty*

The Department of Computer Science and Engineering at The Ohio State University invites applications for 20 tenure-track faculty appointments at all seniority levels and in all CSE research areas, with emphasis on theory and algorithms, artificial intelligence and machine learning, human-centric computing, robotics, high-performance computing and systems, networking and next generation communications, graphics and visualization, cybersecurity and privacy, the intersection of CSE and health/life sciences, computing for social good (including race, inclusion, and social equity), data science and analytics, computational science, quantum computing, and computing education in the 21st century.

Additional details and application instructions are available at <https://cse.osu.edu/faculty-recruiting>

## Oregon State University, College of Engineering

### *Multiple Faculty Positions in Computer Science*

The School of Electrical Engineering and Computer Science at Oregon State

University invites applications for several full-time, nine-month, tenure-track faculty positions. As a land grant institution committed to teaching, research, and outreach and engagement, Oregon State University promotes economic, social, cultural, and environmental progress for the people of Oregon, the nation, and the world. In support of this mission, the College of Engineering recently updated its strategic plan to advance its achievement in high impact research, excellent preparation of all our students, and developing a community of faculty, students, and staff that is increasingly more inclusive, collaborative, diverse, and centered on student success.

We are seeking faculty candidates in software engineering and programming languages. Exceptional candidates in other areas of computer science are also welcome to apply. Applicants should demonstrate a strong commitment and capacity to initiate new funded research as well as to expand and complement existing research programs in the OSU College of Engineering and beyond. Furthermore, applicants should demonstrate a strong commitment to undergraduate and graduate teaching; some successful candidates may also have opportunity to teach in the school's highly ranked online computer science program. Applicants are expected to mentor students and promote equitable outcomes among learners of diverse and underrepresented identity groups. Appointment is anticipated at the Assistant Professor rank, but candidates with exceptional qualifications may be considered for appointment at the rank of Associate or Full Professor.

Applicants must hold a Ph.D. degree in Computer Science, Electrical and Computer Engineering, or a closely related discipline.

Oregon State University is located at the heart of Oregon's Willamette Valley and close to Portland's Silicon Forest with numerous collaboration opportunities. The School of EECS has 64 tenured/tenure-track faculty members and 485 graduate students (243 Ph.D. students). Among the faculty, we have two members of the National Academy of Engineering, 23 professional society (IEEE and ACM) Fellows, and 27 Young Investigator/CAREER Award recipients. Among our several areas of distinction is a widely-recognized program in usability engineering aimed at eliminating gender-bias in software and promoting inclusive technology. We have recently launched Masters and PhD degrees in Artificial Intelligence with the first cohort of students to start in the Fall of 2021. Many faculty members of the School of EECS are also active participants in the recently established Collaborative Robotics and Intelligent Systems (CoRIS) Institute and the Pervasive Personalized Intelligence Center.

Corvallis has been ranked #1 on a list of "Best Places for Work-Life Balance", and is within easy reach of Portland, Eugene, the Cascade mountain range, and the Oregon Coast. Oregon State University has a strong institutional commitment to diversity and multiculturalism, and provides a welcoming atmosphere with unique professional opportunities for leaders from underrepresented groups. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage

applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who share our vision of an inclusive community. The College of Engineering ranks high nationally in terms of the percentage of women faculty, and the university actively supports dual-career opportunities.

Apply online at <https://jobs.oregonstate.edu/postings/96527> (posting #P04080UF) with the following documents: A letter of interest; vita; a two-page statement of research interests; a one-page statement of teaching interests; a one-page statement on the candidate's experiences with and future plans towards equity and inclusion; and names and contact information for at least three references.

Screening of applications will begin on November 1, 2021 and will continue until the positions are filled or until the posting closing date of June 30, 2022, whichever comes first.

## **Oregon State University, College of Engineering**

### *Associate Head for Online Programs*

The College of Engineering at Oregon State University (OSU) invites applications for an Associate Head for Online Programs in the School of Electrical Engineering and Computer Science (EECS). The successful candidate will also hold a tenured appointment within EECS at the rank of Associate or full Professor. Candidates with expertise in any area of computer science are welcome to apply.

## Leadership in Online CS Education

The Associate Head for Online Programs will have an exciting opportunity to shape the future of one of the nation's leading online computer science programs. Our online degree programs offer world-class CS education to a broader range of students, with fewer barriers than traditional classrooms:

- OSU grants more BS degrees in computer science than any other university in the country, including over 500 every year to online students.
- 27% of our online post-bac students are women – almost double the national average for CS programs (14%).
- OSU's eCampus is ranked #4 in the nation for online B.S. programs and #3 in the nation for Veterans.

## Join a Team Committed to Excellence

The School of EECS produces world-changing research in areas that include artificial intelligence, human-computer interaction, security and privacy, transparent electronics, and mixed-signal integrated circuits. We offer strong interdisciplinary graduate programs in Artificial Intelligence – the first in the nation – and in Robotics. Successful candidates will also have an opportunity to be involved in the College of Engineering's newly formed Center for Research in Engineering Education Online (CREEdO).

- The number of faculty increased by more than 25% over the past two years.
- EECS faculty published more than 350 journal articles and conference papers last year.

- Research expenditures grew 35% over the previous year.
- The GenderMag program in usability engineering was pioneered to eliminate gender-bias in software and to promote inclusive technology.

We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who share our vision of an inclusive community. The College of Engineering ranks high nationally in terms of the percentage of women faculty, and the university actively supports dual-career opportunities.

## A Place to Call Home

OSU is located in Corvallis, Oregon, a thriving college town tucked between the Coast Range and the lush farmland of the Willamette Valley with easy access to Portland, the beautiful Oregon Coast, and the majestic Cascade Mountains.

- Gold Rating for Bike Friendliness (The League of American Bicyclists)
- No. 2 Friendliest College Town in America (Great College Deals)
- No. 2 Most Innovative U.S. City (Verizon)

## How to Apply

Apply online at <https://jobs.oregonstate.edu/postings/106536>. Posting Number: (P04760UF) with the following materials: a letter of interest; CV; a two-page statement of research interests; a one-page statement of teaching interests; a one-page statement on efforts towards equity

and inclusion; and names and contact information for at least three references.

**To be assured full consideration, submit your application on or before November 1, 2021.**

## Pomona College

### *Tenure-track Position in Computer Science*

Pomona College seeks applications for an open-rank (assistant, associate, or full) Professor of Computer Science, to begin on July 1, 2022. All subfields of computer science will be considered. Candidates should have a broad background in computer science, be excellent teachers, have an active research program, and be excited about directing undergraduate research. The teaching load is two courses a semester for the two semesters a year. Faculty are expected to teach across all levels of the curriculum. Candidates should have a Ph.D. in hand by the start date.

Pomona College is a highly selective liberal arts college with an enrollment of approximately 1600 students, all undergraduates. We seek to attract, develop, and retain the highest quality faculty and are committed to building a culturally diverse workplace. We value candidates who have experience working with students from diverse backgrounds and who are able to demonstrate a commitment to improving higher education for underrepresented students through their teaching, scholarship, or service.

Pomona College, located 35 miles east of downtown Los Angeles, is the founding member of the Claremont Colleges, which

also include Claremont McKenna, Scripps, Pitzer, Harvey Mudd, and Claremont Graduate University. Collectively, the Claremont Colleges constitute an academic community of 6,000 students. As a result, Pomona students enjoy both the personalized instruction and close faculty-student interactions afforded by a small liberal arts college as well as the intellectual and extracurricular resources typically found at much larger universities. Pomona's Computer Science department has 8 full-time tenured or tenure-track faculty and there are over 25 CS faculty across the Claremont colleges. In collaboration with the Claremont College Consortium, Pomona College offers a variety of professional development, mentorship, and networking opportunities for junior faculty including the opportunity for entering faculty members to apply for a fully-funded leave in their fourth year at the College.

A complete application includes a cover letter; a detailed curriculum vitae; graduate transcripts; three brief statements – one addressing teaching philosophy, one addressing scholarship and one addressing ability to mentor a diverse student body; and three or more letters of reference, at least one of which evaluates the candidate's teaching. Please upload electronic copies of all materials to: <https://academicjobsonline.org/ajo/jobs/19340>

Review of applications will begin on November 15, 2021. For further information, we can be reached via email at [cssearch@pomona.edu](mailto:cssearch@pomona.edu)

## Princeton University

### *Associate Research Scholar in Theoretical Computer Science*

The Department of Computer Science at Princeton University is seeking exceptional recent Ph.D. recipients for research positions in theoretical computer science and theoretical machine learning. The successful candidates will earn competitive salaries, commensurate with experience, and excellent benefits, and carry out independent research under the mentorship of the Theoretical Computer Science faculty. A PhD in Computer Science or a related field is required. Positions are for one year with the expectation of renewal for a second year, subject to a satisfactory first year performance. Appointment will start in the Fall 2022 semester, and is contingent on completion of Ph.D. These appointments will be at the rank of Associate Research Scholar.

An abiding interest in the power of computation has been a regular feature of life at Princeton since the times of Turing, Church, Goedel and von Neumann (all Princeton residents). The Theoretical Computer Science group continues today to pursue research in many areas of theory, including complexity theory, algorithms, data structures, computational geometry, cryptography, machine learning and computational economics. We have close connections with faculty in other groups, including computational biology, graphics, networks and systems. Princeton is a wonderful place for TCS research.

Candidates must apply online at <https://www.princeton.edu/acad-positions/>

[position/22161](#) and submit a CV, research statement, and contact information for three references. For full consideration, we recommend that candidates apply (including letters of recommendation) by **December 10, 2021**, though we will continue to review applications past that date. These positions are subject to the University's background check policy.

Princeton University is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Requisition #D-22-COS-00002

## Princeton University

### *Postdoctoral Research Associate in Theoretical Computer Science*

The Department of Computer Science at Princeton University is seeking applications for postdoctoral or more senior research positions in theoretical computer science and theoretical machine learning. Positions are for one year anticipated to start in September 2022 with the possibility of renewal contingent upon satisfactory performance and continued funding. Candidates must have a PhD in Computer Science or a related field.

For full consideration, we recommend that candidates apply (including letters of recommendation) by December 10, 2021

11:59pm, EST, though we will continue to review applications past that date.

Applicants must apply to: <https://www.princeton.edu/acad-positions/position/22162> and submit a cover letter, CV, research statement, and contact information for three references.

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

Princeton University is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Requisition #D-22-COS-00003

## Purdue University

*Assistant/Associate Professor of Practice Positions in Computer Science*

### Job Summary

The Department of Computer Science in the College of Science at Purdue University West Lafayette campus solicits applications for two Professor of Practice positions at the Assistant or Associate Professor level. Professors of Practice participate in departmental, college, and university-level activities and have professional development opportunities. The positions are non-tenure track faculty positions.

### Qualifications

Applicants must hold a PhD in computer science or a related field, or hold an MS in computer science combined with significant industry experience. Applicants should be committed to excellence in teaching and have the ability to teach a range of courses in the undergraduate curriculum. This includes traditional instruction (lecture courses, lab courses), development and delivery of online courses, participation in curriculum and course development, and interaction with students and student teams. Instructional areas of particular interest are first and second programming courses for majors, mathematical foundations of computer science, and systems programming.

### The Department and College

The Department of Computer Science offers a stimulating academic environment with strong instructional and IT staff support for its growing team of teaching faculty. The department currently enrolls over 1800 CS majors and 350 Data Science majors. Its graduate program includes 225 MS and 350 PhD students. For more information, see <https://www.cs.purdue.edu>.

Computer Science is part of the College of Science, which comprises the computing, physical, and life sciences at Purdue. It is the second-largest college at Purdue with over 350 faculty and more than 6,000 students. The College is pursuing significant new initiatives that complement campus-wide plans, including an Integrative Data Science Initiative. Opportunities for collaboration exist across mathematics,

probability, statistics, and the physical and life sciences. Purdue itself is one of the nation's leading land-grant universities, with an enrollment of over 41,000 students primarily focused on STEM subjects.

### To Apply

Submit your application to [this site](#). Application materials requested include a curriculum vitae, a teaching statement, and an optional research statement. Purdue University's Department of Computer Science is committed to advancing diversity in all areas of faculty effort including discovery, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. Within two business days of your submission, you will receive an email from [system@successfactors.com](mailto:system@successfactors.com) titled "Follow-up to your application." The email contains instructions on how to complete your application by submitting the names of your references. Review of applications and interviews will begin in November 2021 and continue through March 2022. A background check is required for employment in this position. Please send inquiries to [pop-search@cs.purdue.edu](mailto:pop-search@cs.purdue.edu).

*Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.*

## Purdue University

### *Assistant/Associate Faculty Position*

The Elmore Family School of Electrical and Computer Engineering at Purdue University invites applications for a tenure track Assistant/Associate Professor position. Purdue University seeks to attract exceptional candidates with expertise in new-era cross-layer microelectronics, including materials, devices, integrated circuits, and systems. We are seeking applications from researchers who understand the need to perform scientific work across more than just one of the above fields to realize the next generation of microelectronics. The scope includes hardware solutions that involve heterogeneous integration and advanced packaging concepts. Candidates with expertise in open-source design tools with security, robustness, open-source IP, and packaging as foundational aspects of the design methodology are also encouraged to apply. Successful candidates must hold a Ph.D. degree in Electrical and Computer Engineering or a related discipline and demonstrate excellent potential to build an independent research program, as well as the potential to educate and mentor students. The successful candidate will conduct original research, advise graduate students, teach undergraduate and graduate level courses, and perform service at the School, College, and University levels.

The Elmore Family School of Electrical and Computer Engineering (ECE) is the largest academic unit at Purdue University and one of the largest in the nation with more than 110 faculty members (6 NAE members,

more than 40 Fellows in multiple societies), 1,700 undergraduate students (sophomores-seniors) and 1,000 graduate students. ECE is home to the NSF Network for Computational Nanotechnology (NSF NCN, nanoHUB), the SRC/DARPA Center for Brain Inspired Computing Enabling (C-BRIC), and big SRC center-level efforts in new-era electronics. ECE faculty lead the Birck Nanotechnology Center and various research areas under two NSF Engineering Research Centers (ERCs). ECE's undergraduate, graduate and online programs rank 10th, 11th, and 1st in the nation, respectively

The School is an integral part of Purdue's College of Engineering. Purdue Engineering is one of the largest and top-ranked engineering colleges in the nation (2nd public college for engineering, 3rd for online graduate engineering programs, 4th for graduate programs, 6th in the world for utility patents, and 9th for undergraduate programs) and renowned for top-notch faculty, students, unique research facilities, and a culture of collegiality and excellence. The College goal of Pinnacle of Excellence at Scale is guiding strategic growth in new directions, by investing in people, exciting initiatives, and facilities.

**Applications must be submitted electronically via [this site](#)** including (1) a complete curriculum vita, (2) teaching plan, (3) research plan, (4) a diversity and inclusion statement indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion, and (5) names and contact information for at least 4 references. The

search committee may contact references to request letters. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at [coeacademicaffairs@purdue.edu](mailto:coeacademicaffairs@purdue.edu). Review of applications will begin on September 15th, 2021 and will continue until the position is filled. A background check is required for employment in this position.

Purdue is an ADVANCE institution <http://www.purdue.edu/advance-purdue/>. The Elmore Family School of Electrical and Computer Engineering is committed to advancing diversity in all areas of faculty effort including discovery, instruction, and engagement. Purdue and the College of Engineering have a Concierge Program that provides dual career assistance and relocation services.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

## Purdue University College of Engineering

### *Faculty Position Elmore Family School of Electrical and Computer Engineering*

The Elmore Family School of Electrical and Computer Engineering (ECE) at Purdue University invites applications for a Professor of Engineering Practice position at either the Assistant or Associate Professor level. Purdue University seeks to attract exceptional candidates with interests and expertise in teaching in undergraduate and

graduate level courses that provide the foundations for research and development in the broad area of Autonomous and Connected Systems which includes, but is not limited to, machine learning, artificial intelligence, computer vision, imaging, robotics, wireless communications, data science, Internet of Things (IoT), radar, and other related methodologies. This position is aligned with Purdue Engineering's initiative on <https://engineering.purdue.edu/Initiatives/AutoSystems>

Successful candidates must hold a Ph.D. degree in electrical and computer engineering, computer science, statistics, or a related discipline, must be experienced in the practice of the broad area of Autonomous and Connected systems in industry/government/other organizations and demonstrate potential to vertically integrate practice-driven design throughout the ECE curriculum, and to develop national recognition for their work at the interface of practice and education/applied research. The successful candidate should possess strong leadership and organizational skills, and have a creative passion for educating and mentoring young engineers, preparing them to be highly contributing members of their profession. The successful candidate will teach undergraduate and graduate level courses and perform service at the School, College and University levels. Candidates with experience working with diverse groups of students, faculty, and staff and the ability to contribute to an inclusive climate are particularly encouraged to apply.

The Elmore Family School of Electrical and Computer Engineering is the largest

academic unit at Purdue University and one of the largest in the nation with more than 110 faculty members (6 NAE members, more than 40 Fellows in multiple societies,) 1,700 undergraduate students (sophomores-seniors) and 1,000 graduate students. ECE is home to the NSF Network for Computational Nanotechnology (NSF NCN, nanoHUB), the SRC/DARPA Center for Brain Inspired Computing Enabling (C-BRIC), and the Center for Innovation in Control, Optimization, and Networks (ICON). ECE faculty lead the Birck Nanotechnology Center and various research areas under two NSF Engineering Research Centers (ERCs). ECE's undergraduate, graduate and online programs rank 10th, 11th, and 1st in the nation, respectively.

The Elmore Family School is an integral part of Purdue's College of Engineering. Purdue Engineering is one of the largest and top-ranked engineering colleges in the nation (2nd public college for engineering, 3rd for online graduate engineering programs, 4th for graduate programs, 6th in the world for utility patents, and 9th for undergraduate programs) and renowned for top-notch faculty, students, unique research facilities, and a culture of collegiality and excellence. The College goal of Pinnacle of Excellence at Scale is guiding strategic growth in new directions, by investing in people, exciting initiatives, and facilities

Applications must be submitted electronically via [this site](#) including (1) a complete curriculum vitae, (2) teaching plan, (3) research/engagement/outreach

plan, (4) a diversity and inclusion statement indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion, and (5) names and contact information for at least 3 references. The search committee may contact references to request letters. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at [coeacademicaffairs@purdue.edu](mailto:coeacademicaffairs@purdue.edu).

Review of applications will begin on August 31, 2021 and will continue until the position is filled. A background check is required for employment in this position.

Purdue is an ADVANCE institution <http://www.purdue.edu/advance-purdue/> The Elmore Family School of Electrical and Computer Engineering is committed to advancing diversity in all areas of faculty effort including discovery, instruction, and engagement. Purdue and the College of Engineering have a Concierge Program that provides dual career assistance and relocation services.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

## Purdue University

### *Faculty Positions School of Electrical and Computer Engineering*

The Elmore Family School of Electrical and Computer Engineering at Purdue University invites applications for two tenured or tenure track positions at



the assistant and associate professor levels. Purdue University seeks to attract exceptional candidates with interests and expertise in areas of relevance to autonomous and connected systems, including (but not limited to): AI, machine learning, and control for autonomy (either centralized, distributed, or at the edge); wireless communications for autonomous systems; robotics; trust, security and privacy for autonomy; human-autonomy interaction; computer vision for autonomous systems; verification and validation of autonomous systems; intelligent infrastructure systems; hardware and software architectures for autonomous systems. Successful candidates must hold a Ph.D. degree in electrical engineering, computer engineering, computer science, mathematics, statistics, or a related discipline and demonstrate excellent potential to build an independent research program, as well as potential to educate and mentor students. The successful candidate will conduct original research, advise graduate students, teach undergraduate and graduate level courses, and perform service at the School, College, and University levels.

The Elmore Family School of Electrical and Computer Engineering is the largest academic unit at Purdue University and one of the largest in the nation with more than 110 faculty members (6 NAE members, more than 40 Fellows in multiple societies), 1,700 undergraduate students (sophomores-seniors) and 1,000 graduate students. ECE is home

to the NSF Network for Computational Nanotechnology (NSF NCN, nanoHUB), the SRC/DARPA Center for Brain Inspired Computing Enabling (C-BRIC), and the Center for Innovation in Control, Optimization, and Networks (ICON). ECE faculty lead the Birck Nanotechnology Center and various research areas under two NSF Engineering Research Centers (ERCs). ECE's undergraduate, graduate and online programs rank 10th, 11th, and 1st in the nation, respectively.

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Applications must be submitted electronically via [this site](#) including (1) a complete curriculum vitae, (2) teaching plan, (3) research plan, (4) a diversity and inclusion statement indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion, and (5) names and contact information for at least 3 references. The

search committee may contact references to request letters. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at [coeacademicaffairs@purdue.edu](mailto:coeacademicaffairs@purdue.edu). Review of applications will begin on September 15, 2021 and will continue until the position is filled. A background check is required for employment in this position.

Purdue is an ADVANCE institution <http://www.purdue.edu/advance-purdue/>. The Elmore Family School of Electrical and Computer Engineering is committed to advancing diversity in all areas of faculty effort including discovery, instruction, and engagement. Purdue and the College of Engineering have a Concierge Program that provides dual career assistance and relocation services.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

## Purdue University

### *Associate/Full Faculty Position*

The Elmore Family School of Electrical and Computer Engineering at Purdue University invites applications for a tenured Associate/Full Professor position. Purdue University seeks to attract exceptional candidates with expertise in new-era cross-layer microelectronics, including materials, devices, integrated circuits, and systems. We are seeking applications from researchers who

understand the need to perform scientific work across more than just one of the above fields to realize the next generation of microelectronics. The scope includes hardware solutions that involve heterogeneous integration and advanced packaging concepts. Candidates with expertise in open-source design tools with security, robustness, open-source IP, and packaging as foundational aspects of the design methodology are also encouraged to apply. Successful candidates must hold a Ph.D. degree in Electrical and Computer Engineering or a related discipline and demonstrate excellent potential to build an independent research program, as well as the potential to educate and mentor students. The successful candidate will conduct original research, advise graduate students, teach undergraduate and graduate level courses, and perform service at the School, College, and University levels.

The Elmore Family School of Electrical and Computer Engineering (ECE) is the largest academic unit at Purdue University and one of the largest in the nation with more than 110 faculty members (6 NAE members, more than 40 Fellows in multiple societies), 1,700 undergraduate students (sophomores-seniors) and 1,000 graduate students. ECE is home to the NSF Network for Computational Nanotechnology (NSF NCN, nanoHUB), the SRC/DARPA Center for Brain Inspired Computing Enabling (C-BRIC), and big SRC center-level efforts in new-era electronics. ECE faculty lead the Birck Nanotechnology Center and various research areas under

two NSF Engineering Research Centers (ERCs). ECE's undergraduate, graduate and online programs rank 10th, 11th, and 1st in the nation, respectively

The School is an integral part of Purdue's College of Engineering. Purdue Engineering is one of the largest and top-ranked engineering colleges in the nation (2nd public college for engineering, 3rd for online graduate engineering programs, 4th for graduate programs, 6th in the world for utility patents, and 9th for undergraduate programs) and renowned for top-notch faculty, students, unique research facilities, and a culture of collegiality and excellence. The College goal of Pinnacle of Excellence at Scale is guiding strategic growth in new directions, by investing in people, exciting initiatives, and facilities.

Applications must be submitted electronically via [this site](#) including (1) a complete curriculum vita, (2) teaching plan, (3) research plan, (4) a diversity and inclusion statement indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion, and (5) names and contact information for at least 4 references. The search committee may contact references to request letters. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at [coeacademicaffairs@purdue.edu](mailto:coeacademicaffairs@purdue.edu). Review of applications will begin on September 15th, 2021 and will continue until the position is filled. A background check is required for employment in this position.

Purdue is an ADVANCE institution <http://www.purdue.edu/advance-purdue/>. The Elmore Family School of Electrical and Computer Engineering is committed to advancing diversity in all areas of faculty effort including discovery, instruction, and engagement. Purdue and the College of Engineering have a Concierge Program that provides dual career assistance and relocation services.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

## Ramapo College of New Jersey

### *Tenure Track - Assistant / Associate Professor of Computer Science*

Ramapo College of New Jersey is seeking applicants for a tenure track faculty position in Computer Science, with a starting date of September 2022, with a rank of Assistant or Associate Professor depending on the successful candidate's previous work experience and record of scholarly achievement. The successful candidate will demonstrate a dedication to teaching computer science at the undergraduate and graduate (Masters's) levels. 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. Candidates with expertise in any area of Computer Science are encouraged to apply.

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

**Requirements:** PhD in Computer Science, or a closely related field completed by September 2022.

**Application Instructions:** Candidates must apply electronically, with a cover letter, CV, and Teaching and Research statements through RCNJ's application site: <https://www.ramapojobs.com/job-details?jobID=387>

RCNJ is an Equal Opportunity Employer

## Reed College

*Tenure-Track Faculty Position in Computer Science*

### Position Description

The Department of Computer Science at Reed College invites applications for an open rank tenure-track faculty position beginning in the fall of 2022. Applicants should have a Ph.D. in computer science or a closely related field by the time of the appointment and should be committed to excellence in undergraduate teaching and in research. The successful applicant will teach in the

core computer science curriculum at all levels, will develop one or more courses in the applicant's area(s) of expertise, and will work to foster a welcoming and engaged community. They will maintain an active research program, ideally providing opportunities for student involvement, and they will advise several year-long senior thesis projects. Applicants from all areas of computer science are encouraged to apply.

Reed is a distinguished liberal arts college that offers a demanding academic program to approximately 1400 bright and dedicated undergraduate students. The college believes that cultural diversity is essential to the excellence of our academic program (see <https://www.reed.edu/diversity/>). Applicants to the position are encouraged to contact Adam Groce ([agroce@reed.edu](mailto:agroce@reed.edu)), the chair of the search committee, for further details about the position and the college's computer science program. Information about the position is also posted at <https://www.reed.edu/computer-science/faculty-search.html>.

### Application Instructions

Applicants should submit their applications electronically through the Interfolio service at <http://apply.interfolio.com/91565> and should include a cover letter, curriculum vitae, teaching statement, research statement, diversity statement, and three letters of recommendation. The cover letter should address how the applicant's teaching and scholarship would contribute to Reed's small, selective undergraduate environment. The diversity statement should address how the applicant can further the diversity and inclusivity of the computer science program.

Applications submitted by October 25, 2021 are guaranteed full consideration, although review of applications will continue until the position is filled.

An Equal Opportunity Employer, Reed values diversity and encourages applications from underrepresented groups.

## San Diego State University

*Department of Computer Science*

*Tenure-Track Assistant Professor Position*

The Department of Computer Science is seeking to hire a tenure-track assistant professor beginning Fall 2022. Strong candidates in all fields of computer science will be considered, with an emphasis on software engineering. The candidates should have a PhD degree in Computer Science or a closely related field.

Position details and instructions to apply can be found at <https://apply.interfolio.com/94563>.

Questions about the position may be directed to [COS-CS-SE-Search2022@sdsu.edu](mailto:COS-CS-SE-Search2022@sdsu.edu).

SDSU is an equal opportunity/Title IX employer.

## Santa Clara University

*Lecturers - Information Systems & Analytics (ISA)*

### Overview

The Information Systems and Analytics (ISA) Department of the Leavey School of Business at Santa Clara University invites

applications for multiple lecturer positions in the areas of Information Systems, Analytics, and Operations.

Review of applications will begin immediately and continue until all positions are filled. Positions can start as soon as September 1, 2021.

### Basic Qualifications

We see this specialization as falling at the intersection of information systems, business analytics, and operations management. Applicants should possess a foundation in these disciplines and deep expertise in one or more. Applicants must have a Ph.D. in Information Systems, Operations Management, Computer Science, Business Analytics, Statistics, or a related field.

Preference will be given to candidates who have demonstrated excellence in research and teaching, embrace the Silicon Valley spirit, and have the expertise or willingness to teach/develop various courses. In addition, we encourage applications from candidates who will contribute to the diversity of our college community, including members of historically underrepresented groups.

### Responsibilities

Teaching graduate and/or undergraduate courses and fulfilling the responsibilities associated with those courses.

Providing suitable service to the department, university, profession, and/or community.

### Salary

Salaries are competitive and commensurate with qualifications and experience.

### How to Apply

Applications must be submitted via [https://wd1.myworkdaysite.com/recruiting/scu/scu/job/Santa-Clara-CA/Lecturers---Information-Systems---Analytics--ISA\\_R1470](https://wd1.myworkdaysite.com/recruiting/scu/scu/job/Santa-Clara-CA/Lecturers---Information-Systems---Analytics--ISA_R1470)

## Santa Clara University

### *Tenure-Track Assistant Professors in ISA*

### Overview

The Information Systems and Analytics (ISA) Department of the Leavey School of Business at Santa Clara University invites applications for tenure-track positions beginning Fall 2022. These multiple positions are for the rank of assistant professor in the areas of Information Systems, Analytics, and Operations. Review of applications will begin immediately and continue until positions are filled.

### Basic Qualifications

We see this specialization as falling at the intersection of information systems, business analytics, and operations management. Applicants should possess a foundation in these disciplines and deep expertise in one or more. Applicants must have a Ph.D. in Information Systems, Operations Management, Computer Science, Business Analytics, Statistics, or a related field.

Preference will be given to candidates who have demonstrated excellence in research and teaching, embrace the Silicon Valley

spirit, and have the expertise or willingness to teach/develop various courses. In addition, we encourage applications from candidates who will contribute to the diversity of our college community, including members of historically underrepresented groups.

### Responsibilities

Maintaining a program of research leading to publications in high-quality journals.

Teaching graduate and/or undergraduate courses and fulfilling the responsibilities associated with those courses.

Providing suitable service to the department, university, profession, and/or community.

### Salary

Salaries are competitive and commensurate with qualifications and experience.

### How to Apply

Applications must be submitted via [https://wd1.myworkdaysite.com/recruiting/scu/scu/job/Santa-Clara-CA/Tenure-Track-Assistant-Professors-in-ISA\\_R1468](https://wd1.myworkdaysite.com/recruiting/scu/scu/job/Santa-Clara-CA/Tenure-Track-Assistant-Professors-in-ISA_R1468)

## Santa Clara University

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

### Purpose:

The Department of Computer Science & Engineering at Santa Clara University invites applications for two tenure-track Assistant Professor positions starting in the 2022-2023 academic year. To complement expertise of current faculty, address areas of strong interest to students,

and enhance collaboration opportunities with local industries, the department is particularly interested in candidates with specializations in software engineering, programming languages, visualization (AR/VR), database systems, and embedded systems. However, Silicon Valley is an area of broad and ever-changing technical interests and needs, and strong candidates will be seriously considered regardless of area of specialization.

Santa Clara University (<https://www.scu.edu>) is a comprehensive Jesuit, Catholic university, located in the heart of Silicon Valley. Distinguished by the highest retention rate and has been ranked first among all regional universities in the West by U.S. News and World Report, Santa Clara University is now elevated to a new category in national rankings, "Doctoral/Professional Universities." Santa Clara University's ranking in the 2021 edition of Best Colleges is National Universities, #53. Santa Clara University is California's oldest operating institution of higher-education. The School of Engineering is committed to improving the human condition through engineering education, practice, and scholarship, promoting the University's mission to "fashion a more humane, just and sustainable world."

SCU maintains small class sizes and promotes close faculty/student interaction. The University enrollment is approximately 5,500 undergraduate and 3,700 graduate students. The Department (<https://www.scu.edu/engineering/academic-programs/departments-of-computer-engineering/>)

offers B.S., M.S. and Ph.D. degrees, with 23 full-time faculty, and a strong pool of approximately 20 part-time adjunct faculty who instruct about 400 undergraduate majors, and about 450 part-time and full-time graduate (M.S. and Ph.D.) majors. The School of Engineering maintains strong ties to local industry.

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

We welcome candidates who are ready to contribute to our mission to educate citizens and leaders of competence, conscience, and compassion and to cultivate knowledge and faith to build a more humane, just, and sustainable

world. We especially encourage applicants whose goals and professional or life experiences enrich the department and school community and who can serve as a role model to a diverse student population.

### **Salary:**

Based on experience, education, and expertise.

### **Basic Qualifications:**

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

### **Responsibilities:**

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

The standard academic year course load for tenured and tenure-track positions is seven quarter-level course equivalents,

generally with a one-course equivalent reduction for scholarly or creative work. The first year tenure-track assistant professor is granted an additional one course release.

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

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

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

**Start Date:** 09/01/2022

**Work Authorization:**

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

**Posting Detail Information:**

**Open Date:** 08/20/2021

**Close Date:**

**Open Until Filled:** Yes

**Special Instructions to Applicants:**

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

All letters of application MUST include statements of research interests, statements of teaching interests, and statements of equity, diversity, and

inclusion. An equity, diversity, and inclusion (EDI) statement describes past, present, and planned contributions to equity, diversity, and/or inclusion in engineering or other areas. All materials should be submitted online at [https://wd1.myworkdaysite.com/en-US/recruiting/scu/scu/job/Santa-Clara-CA/Tenure-Track-Assistant-Professor-of-Computer-Science-and-Engineering\\_R1639](https://wd1.myworkdaysite.com/en-US/recruiting/scu/scu/job/Santa-Clara-CA/Tenure-Track-Assistant-Professor-of-Computer-Science-and-Engineering_R1639)

Complete application packets received by December 5, 2021 will receive full consideration. However, the position will remain open until filled.

**About Santa Clara University:**

Santa Clara University is a comprehensive Jesuit, Catholic university located in California's Silicon Valley, offering its 8,800 students with rigorous undergraduate curricula in arts and sciences, business, and engineering, plus graduate degrees (master's, Ph.D., and law degrees) in six disciplines.

Distinguished by the highest retention rate and ranked among the top 15 percent of national universities by U.S. News & World Report, Santa Clara University is California's oldest operating institution of higher-education. The University is focused on creating an academic community that educates citizens and leaders who will build a more just, humane, and sustainable world.

**EEO Statement:**

Santa Clara University is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity and inclusion, and, in this spirit, particularly welcomes applications from women, persons of color, and members

of historically underrepresented groups. All qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity or expression, age, status as a protected veteran, status as a qualified individual with a disability, or other protected category in accordance with applicable law. The University will provide reasonable accommodations to individuals with a disability.

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

**Required Documents:**

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

## References:

Accept References? Yes  
Minimum Number of References 3  
Maximum Number of References 3

## Stanford University

### *Associate or Full Professor (Teaching) in Data Science*

The Statistics Department at Stanford University invites applications for a position at the Associate or Full Professor (Teaching) level in Data Science. The initial appointment for either rank is up to 6 years. The Associate Professor (Teaching) term is renewable for an unlimited number of 6-yr terms or for a continuing term, which provides security of appointment without requiring further formal reappointment. The Professor (Teaching) term is renewable for a continuing term.

Decisions on reappointment and promotion, like decisions on initial appointment, are subject to the exercise of professional and scholarly judgment and discretion by the university's departmental faculty and academic leadership.

Candidates must hold a Ph.D. in a relevant area such as Statistics, Computer Science, or the social sciences, and be recognized for distinguished contributions to the teaching and practice of Data Science. The successful candidate will be expected to maintain a robust program in Data Science that includes teaching an introductory data science course and, depending on the candidate's background and interests, may include mentoring students in the practice of data science or research.

Applicants should submit a letter of application, curriculum vita, a statement (not to exceed 3 pages) of interests in teaching, research, and practice, course evaluations, and not more than one preprint/reprint about the candidate's work in one of these areas. Applications should be submitted online at <https://academicjobsonline.org/ajo/jobs/19298>. Questions may be submitted to [search@stat.stanford.edu](mailto:search@stat.stanford.edu).

Evaluation of applicants will begin November 16, 2021. Applications must be received by December 11, 2021 to be guaranteed consideration.

The successful candidate will play a major role in the new undergraduate interdisciplinary Data Science degree which will be offered jointly by the Departments of Statistics, Computer Science, Mathematics, and Management Science and Engineering. The position will be housed in the Statistics Department, which currently has 25 regular faculty members, as well as a distinguished group of emeriti. Many professors have joint appointments in other departments, including positions in mathematics, economics, the School of Medicine, the School of Engineering, and the School of Education.

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

## State University of New York at Binghamton

### *Department of Computer Science*

<http://cs.binghamton.edu>

The Computer Science Department at Binghamton University has one tenure-track assistant professor position beginning Fall 2022. Applicants should have a Ph.D. in Computer Science or related discipline, a strong research record, and a commitment to research and teaching. Qualified applications are invited from candidates with specializations in the areas of Artificial Intelligence (deep learning and NLP), Cybersecurity, Cloud Computing, and Software Engineering. Outstanding candidates in other systems areas will also be considered.

Further details and application information are available at:

<https://binghamton.interviewexchange.com/jobofferdetails.jsp?JOBID=135373>

Applications will be reviewed until the position is filled.

Binghamton University is an Equal Opportunity/Affirmative Action/Disability/Veterans Employer.

## Texas A&M University

### *Academic Professional Track Faculty Positions*

The Department of Computer Science and Engineering at Texas A&M University invites applications for two (2) academic professional track (non-tenure) faculty

positions at the assistant lecturer, lecturer, senior lecturer, instructional assistant professor, instructional associate professor, instructional professor, associate professor of practice, professor of practice, visiting assistant professor, visiting associate professor, and visiting professor levels with teaching expertise in computer science or computer engineering. The successful applicants will teach primarily at the undergraduate level to support the development of the undergraduate program; advise and mentor undergraduate students; participate in all aspects of the department's activities, and serve the profession. Applicants will be responsible for the organization, delivery, evaluation, and assessment of the computer science and engineering courses and student outcomes associated with these courses. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs (<https://engineering.tamu.edu/cse>).

The Department of Computer Science and Engineering (CSE) at Texas A&M is currently one of 15 departments in the College of Engineering. Academic professional track (APT) positions provide long-term career paths with opportunities for advancement. With an average time in service of eight years for our APT faculty, CSE prides itself on offering an engaging, collegial, and collaborative culture in the area of teaching, curriculum development, and service. We are committed to hiring outstanding teachers who can introduce new and innovative teaching pedagogies. The department

provides its 1,300+ (sophomore to senior level) undergraduate students with the highest quality of education in computer science and computer engineering. This commitment to instruction produces versatile students with a strong education and technical training, allowing them to be competitive in the job market or prepared for advanced studies in graduate school.

For appointments at Associate Professor of the Practice or Professor of the Practice level, applicants must have, at the minimum, an earned master's level degree or at least 18 graduate credit hours in the teaching discipline for professor of practice level titles. We will also consider applicants with a bachelor's degree and significant professional experience.

For appointments at Assistant Lecturer, Lecturer, Senior Lecturer, Instructional Assistant Professor, Instructional Associate Professor, or Instructional Professor level, applicants must have a masters or doctoral degree in a closely related engineering or science discipline.

For appointments at the Visiting Assistant Professor, Visiting Associate Professor, and Visiting Professor level, applicants must have a doctoral degree in a closely related engineering or science discipline.

Applicants should submit a cover letter, curriculum vitae, teaching statement, diversity statement, and a list of three references (including email addresses) by applying for this specific position at <http://apply.interfolio.com/93796>.

The review process will begin immediately. Priority consideration will be given to

applications received by January 4, 2022. Applications received after that date may be considered until positions are filled. It is anticipated the appointments will begin fall 2022.

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

### *Assistant Research Scientist, Data Science*

The Texas A&M Institute of Data Science (TAMIDS) is hiring an Assistant Research Scientist to join our Data Science team. We're seeking someone with experience, skills, and initiative to develop new collaborations in Data Science with operational and academic units, provide consultancy and training, embody their ideas through software tools, and mentor student participation. The position should appeal to someone with a broad set of Data Science skills who enjoys harnessing state-of-the-art methods and systems to have practical impact.

See the TAMU jobs website for further details and how to apply: [https://tamus.wd1.myworkdayjobs.com/en-US/TAMU\\_External/job/College-Station-TAMU/Assistant-Research-Scientist\\_R-041594](https://tamus.wd1.myworkdayjobs.com/en-US/TAMU_External/job/College-Station-TAMU/Assistant-Research-Scientist_R-041594)



## Texas A&M University

### *Faculty Positions Available*

The Department of Statistics at Texas A&M University anticipates multiple tenure-track Assistant Professor positions to begin in August 2022. All positions will be full-time, 9-month appointments. Completion of all requirements for a PhD/ DSc degree in Statistics or a related field prior to beginning employment is required. The department encourages persons from all areas of research to apply, and is particularly interested in expertise in the broad area of data science. Evidence of interdisciplinary research and focus on computational aspects is a plus. In addition to conducting outstanding research, the successful candidate will be expected to teach undergraduate and graduate courses and supervise graduate students. Excellent computing facilities are available, and highly competitive startup funding and starting salaries are anticipated.

The Department of Statistics has a tradition of outstanding methodological, theoretical, computational, and interdisciplinary research. Current faculty members actively collaborate with colleagues within the department, throughout the university, and at many outside institutions. Texas A&M University has a partner placement program and is responsive to the particular needs of dual career couples. Interested applicants should include a current CV, teaching and research statements, and at least three letters of recommendation.

To apply, please visit <https://apply.interfolio.com/92570>.

All applications received by October 22, 2021 will receive full consideration, but applications will continue to be accepted until all positions are filled. Please direct all inquiries to Dr. Matthias Katzfuss, Search Committee Chair at [hireing@stat.tamu.edu](mailto:hireing@stat.tamu.edu).

## Texas A&M University

### *Academic Professional Track Faculty Position & Director*

The Department of Computer Science and Engineering at Texas A&M University at Galveston invites applications for an Academic Professional Track (non-tenure): Open Rank & Director position. We are considering applicants at the assistant lecturer, lecturer, senior lecturer, instructional assistant professor, instructional associate professor, instructional professor, associate professor of practice, professor of practice, with teaching expertise in computer science or computer engineering. This academic appointment, with the possibility of a summer appointment contingent upon the need and availability of funds, is expected to begin summer of 2022. The successful applicant will teach primarily at the undergraduate level to support the development of the undergraduate program; advise and mentor undergraduate students; participate in all aspects of the department's activities, and serve the profession. Applicants will be responsible for the organization, delivery, evaluation, and assessment of the computer science and engineering courses and student outcomes associated with these courses

at Texas A&M University at Galveston. Strong written and verbal communication skills are required. Program management experience in an academic setting is required. Along with teaching duties, the Director will provide leadership and support to the Department of Computer Science and Engineering site location on the Galveston campus. Applicants should consult the department's website to review our academic and research programs (<https://engineering.tamu.edu/cse>) and consult the Engineering at Galveston website to review the college programs (<https://engineering.tamu.edu/admissions-and-aid/engineering-at-galveston/index.html>).

The Department of Computer Science and Engineering (CSE) at Texas A&M is currently one of 15 departments in the College of Engineering. Academic professional track (APT) positions provide long-term career paths with opportunities for advancement. With an average time in service of eight years for our APT faculty, CSE prides itself on offering an engaging, collegial, and collaborative culture in the area of teaching, curriculum development, and service. We are committed to hiring outstanding teachers who can introduce new and innovative teaching pedagogies. The department provides its 1,300+ (sophomore to senior level) undergraduate students with the highest quality of education in computer science and computer engineering. This commitment to instruction produces versatile students with a strong education and technical training, allowing them to be competitive in the job market or prepared for advanced studies in graduate school.

Texas A&M University at Galveston is an ocean-oriented branch campus of Texas A&M University, which educates nearly 2,300 undergraduate and graduate students. Ideally located in Galveston, Texas, on the Gulf Coast, surrounded by the industry, environment, and programs essential to fulfilling its special-purpose mission. There are multiple College of Engineering programs on the Galveston campus. Students who choose to student engineering at the Texas A&M Galveston campus are Texas A&M engineering students enrolled in Texas A&M engineering courses taught by Texas A&M engineering faculty.

For appointments at Associate Professor of the Practice or Professor of the Practice level, applicants must have, at the minimum, an earned master's level degree or at least 18 graduate credit hours in the teaching discipline for the professor of practice level titles. We will also consider applicants with a bachelor's degree and significant professional experience.

For appointments at Assistant Lecturer, Lecturer, Senior Lecturer, Instructional Assistant Professor, Instructional Associate Professor, or Instructional Professor level, applicants must have a masters or doctoral degree in a closely related engineering or science discipline.

Applicants should submit a cover letter, curriculum vitae, teaching statement, diversity statement, and a list of three references (including email addresses) by applying for this specific position at <http://apply.interfolio.com/93794>.

The review process will begin immediately. Priority consideration will be given to applications received by January 4, 2022. Applications received after that date may be considered until positions are filled. It is anticipated the appointment will begin July 1, 2022.

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

### *Academic Professional Track Faculty Positions*

The Department of Computer Science and Engineering at Texas A&M University at Galveston invites applications for two (2) academic professional track (non-tenure) faculty positions at the assistant lecturer, lecturer, senior lecturer, instructional assistant professor, instructional associate professor, instructional professor, associate professor of practice, professor of practice, visiting assistant professor, visiting associate professor, and visiting professor levels with teaching expertise in computer science or computer engineering. The successful applicants will teach primarily at the undergraduate level to support

the development of the undergraduate program; advise and mentor undergraduate students; participate in all aspects of the department's activities, and serve the profession. Applicants will be responsible for the organization, delivery, evaluation, and assessment of the computer science and engineering courses and student outcomes associated with these courses at Texas A&M University at Galveston. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs (<https://engineering.tamu.edu/cse>) and consult the Engineering at Galveston website to review the college programs (<https://engineering.tamu.edu/admissions-and-aid/engineering-at-galveston/index.html>).

The Department of Computer Science and Engineering (CSE) at Texas A&M is currently one of 15 departments in the College of Engineering. Academic professional track (APT) positions provide long-term career paths with opportunities for advancement. With an average time in service of eight years for our APT faculty, CSE prides itself on offering an engaging, collegial, and collaborative culture in the area of teaching, curriculum development, and service. We are committed to hiring outstanding teachers who can introduce new and innovative teaching pedagogies. The department provides its 1,300+ (sophomore to senior level) undergraduate students with the highest quality of education in computer science and computer engineering. This commitment to instruction produces versatile students with a strong education and technical training,

allowing them to be competitive in the job market or prepared for advanced studies in graduate school. Texas A&M University at Galveston is an ocean-oriented branch campus of Texas A&M University, which educates nearly 2,300 undergraduate and graduate students. Ideally located in Galveston, Texas, on the Gulf Coast, surrounded by the industry, environment, and programs essential to fulfilling its special-purpose mission. There are multiple College of Engineering programs on the Galveston campus. Students who choose to student engineering at the Texas A&M Galveston campus are Texas A&M engineering students enrolled in Texas A&M engineering courses taught by Texas A&M engineering faculty.

For appointments at Associate Professor of the Practice or Professor of the Practice level, applicants must have, at the minimum, an earned master's level degree or at least 18 graduate credit hours in the teaching discipline for professor of practice level titles. We will also consider applicants with a bachelor's degree and significant professional experience.

For appointments at Assistant Lecturer, Lecturer, Senior Lecturer, Instructional Assistant Professor, Instructional Associate Professor, or Instructional Professor level, applicants must have a masters or doctoral degree in a closely related engineering or science discipline.

For appointments at the Visiting Assistant Professor, Visiting Associate Professor, and Visiting Professor level, applicants must have a doctoral degree in a closely related engineering or science discipline.

Applicants should submit a cover letter, curriculum vitae, teaching statement, diversity statement, and a list of three references (including email addresses) by applying for this specific position at <http://apply.interfolio.com/93753>.

The review process will begin immediately. Priority consideration will be given to applications received by January 4, 2022. Applications received after that date may be considered until positions are filled. It is anticipated the appointments will begin July 2022 or September 2022.

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 State University

### *Multiple Open Faculty Positions*

The Department of Computer Science invites applications for three tenure-track Assistant or Associate Professor positions and one Lecturer or Senior Lecturer position to start on September 1, 2022, subject to availability of funds. Consult the department's employment page at <https://cs.txstate.edu/employment/faculty/> for additional information and to apply.

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

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

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

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

## Transylvania University

### *Assistant Professor of Computer Science*

Transylvania University ([www.transy.edu](http://www.transy.edu)), a top-tier, independent, residential liberal arts college in Lexington, Kentucky, invites applications for the position of Assistant Professor of Computer Science. This is a tenure-track position beginning August 26, 2022. Transylvania University recognizes that a diverse and inclusive community is essential to the fulfillment of our mission as a liberal arts institution. To that end, we seek to attract a diverse faculty skilled in the scholarship of teaching, research, and

mentorship of students from a variety of backgrounds. Candidates are encouraged, in their cover letter, to identify their strengths and experiences in creating an inclusive academic community.

## **Job Responsibilities:**

The ideal candidate will have expertise in database management systems, cybersecurity, data analytics, or graphics. Applicants with an interest in interdisciplinary elements of Computer Science are particularly encouraged, especially regarding racial and gender biases in computer technology. We are looking for applicants who are passionate about attracting, teaching, and mentoring historically underrepresented groups in Computer Science. Occasional contributions to First-Year programming and service as an academic adviser are also expected. The teaching load consists of three courses per semester, plus one short-term course in May (3-3-1) that offers additional opportunities for travel courses, team-taught courses and other more experimental classroom endeavors. Other responsibilities include academic scholarship/professional activity, preferably involving undergraduate students, and service to the university through various committee appointments. The university also has an excellent faculty development program that competitively funds faculty (and student) scholarly research and artistic projects.

## **Qualifications:**

A terminal degree (Ph.D. preferred) is required by the start date. Preference will be given to candidates with undergraduate teaching experience, particularly within the context of computer science. The candidate must demonstrate a commitment to continuing

their own professional work along with a commitment to teaching, collegiality, interdisciplinary dialogue, and working collaboratively with other faculty and with students both within the Computer Science Program and across disciplines within a liberal arts environment.

To begin the application process, submit one PDF that contains your curriculum vitae, your unofficial graduate transcripts, statements of teaching and research philosophies, and three letters of recommendation. Candidates are encouraged to identify their strengths and experiences in creating an inclusive academic community. This PDF, along with your cover letter, may be submitted by following the job openings link at <http://www.transyedu/jobs>. If you have confidential letters of recommendation, those can be sent to [CSJob@transyedu](mailto:CSJob@transyedu). If you are selected to move forward in the application process, you will be asked to provide official graduate transcripts at a later date. Send questions specific to this search to Dr. Kenneth Moorman, search committee chair, at [kmoorman@transyedu](mailto:kmoorman@transyedu).

Review of applications will begin on November 1 and will continue until an appointment is made.

Transylvania University is ranked in the top 15 percent of the nation's four-year colleges by the Princeton Review, which cites its community-driven, personalized approach to a liberal arts education through 46 majors and 39 minors. Founded in 1780, it is the 16th oldest institution of higher learning in the country, with approximately 1,000 students.

Transylvania University is an Equal Opportunity Employer and is committed to enhancing the diversity of the university community. In support of this goal, we seek qualified candidates with a wide range of backgrounds, perspectives, and experiences. We embrace diversity and encourage all who are interested to apply.

## **Tufts University**

### *Multiple Open Faculty Positions*

The Department of Computer Science at Tufts University invites applications for multiple open faculty positions. For more information about the department or these positions, please visit <http://go.tufts.edu/CSpositions>. Women, African American/Black, Hispanic/Latino(a), Native American/Alaska Native candidates, and those from other marginalized groups are welcome and strongly encouraged to apply. Throughout their application, all candidates are encouraged to demonstrate their attention to diversity and inclusion as these topics relate to teaching, research (as applicable), and engagement within the academic environment.

### *Tenure-track faculty positions in*

*Security and AI starting Fall 2022.* We seek candidates for multiple tenure-track faculty positions at the rank of Assistant or Associate Professor. We are especially interested in candidates with research in Security, particularly Systems Security, Network Security, and Real-World or Applied Cryptography; and candidates in Artificial Intelligence, particularly Cognitive Systems, Common Sense Reasoning, Natural Language Understanding, Machine Vision, and Human-AI



## Hiring Research & Tenure-Track Faculty

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

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

### About TTIC

TTIC is a philanthropically endowed academic institute dedicated to fundamental research and graduate education in computer science. The Institute produces cutting-edge research and offers world-class graduate education. Our faculty routinely publish their results at top conferences and are recognized with prominent distinctions.

Our faculty members enjoy a uniquely light teaching load, which helps them focus on their research. TTIC has only PhD students, so all courses and activities are focused on advanced learning and research. Located on the University of Chicago campus, TTIC has a strong working relationship with U of C.

### The RAP Role

The RAP position is a three-year position, with a salary and a discretionary research budget paid from TTIC's endowment. Learn more at [ttic.edu/research-assistant-professor/](https://ttic.edu/research-assistant-professor/).

### Learn More

To learn more about opportunities at TTIC, please visit the full-text ads under both "professional" and "postdoctoral" job types in the CRA jobs site, and visit TTIC's faculty hiring page: [ttic.edu/faculty-hiring/](https://ttic.edu/faculty-hiring/)

6045 South Kenwood Ave | Chicago, IL 60637  
[www.ttic.edu](http://www.ttic.edu) | [@ttic\\_connect](https://twitter.com/ttic_connect)

Interaction. Exceptional candidates in other areas will be considered as well, including mid-career candidates with strong academic leadership potential. Submit your application at <https://apply.interfolio.com/92330>.

Review of applications will begin December 15, 2021 and will continue until the position is filled. Send inquiries to [ttsearch@cs.tufts.edu](mailto:ttsearch@cs.tufts.edu).

**Teaching-track faculty position starting Spring or Fall 2022.** We seek candidates at the rank of Assistant or Associate Teaching Professor. Candidates are expected to have strong foundational knowledge in one or more areas of our core curriculum, including Data Structures, Algorithms, Operating Systems, Programming Languages, and Computation Theory. This is a full-time, non-tenure-track position. The initial appointment is for two years, with possible renewal contingent on annual performance review results. A doctoral degree is preferred but not required. Submit your application at <https://apply.interfolio.com/92332>. Applications are due December 15, 2021, but review of applications will begin October 15, 2021 and continue until the position is filled. Send inquiries to [cssearch@cs.tufts.edu](mailto:cssearch@cs.tufts.edu).

**Adjunct faculty positions.** We conduct an ongoing search for qualified part-time lecturers for in-person and online courses. Submit your application at <https://apply.interfolio.com/89783>.

**About Tufts.** The Tufts CS department has grown significantly in the past decade in faculty, student size, and research funding. Tufts offers the best of a liberal arts college atmosphere coupled with the intellectual and

technological resources of an R1 research university. We support and encourage a culture of interdisciplinary research, and there are numerous such opportunities within the university. Located only six miles from historic downtown Boston, faculty members on the Tufts Medford/Somerville campus have extensive opportunities for academic and industrial collaboration outside of Tufts as well as participation in the rich intellectual life of the area.

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

## U.S. Naval Academy

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

The U.S. Naval Academy's Computer Science Department invites applications for a tenure track position at the rank of Assistant Professor, to begin late July 2022. A Ph.D. in Computer Science, Data Science, or closely

related field is required. Applications are encouraged from all relevant topical areas.

The Naval Academy features a diverse set of students representing every part of the United States and a number of other countries, drawn together by a desire to serve in their future careers.

As part of this culture, the Computer Science Department is committed to recruiting and supporting a diverse and inclusive faculty. We therefore encourage qualified applicants from all backgrounds to apply for consideration.

Applicants must have a dedication to teaching at the undergraduate level and a strong research program. Note that no military background is needed as this is a civilian faculty position.

The department offers a Computer Science major (with 150 current students), and also leads a new interdisciplinary major in Data Science. We currently have a faculty of 16. The successful applicant can expect small class sizes (typically 10-20 students), a highly collaborative and collegial department, numerous opportunities for internal and external research collaboration, competitive compensation (including 10 months salary plus support for possible internal and external sources of summer salary), and excellent federal benefits.

See <https://www.usna.edu/HRO/jobinfo/Tenure-track-CompSci-AY22.php> for more details and application requirements. U.S. Citizenship is required.

Initial review of applications will begin on November 1, 2021 and continue until the position is filled.

## University at Buffalo

*Assistant, Associate or Full Professor*

The Department of Computer Science and Engineering (CSE) at University at Buffalo (UB) invites candidates to apply for the positions of Assistant Professor, Associate Professor or Full Professor. We are particularly looking for candidates who can operate effectively in a team environment and in a diverse community of students and faculty and share our vision of helping all constituents reach their full potential.

The successful candidate will be expected to teach courses at the graduate and undergraduate levels, mentor graduate students, advise students at all levels and maintain an active research program. The successful candidate for an Associate Professor or Full Professor position should have a record of scholarly accomplishments, teaching experience and a sustained externally funded research program. All areas of research expertise that complement the existing research strengths in the department will be considered. Preference will be given to candidates in the following areas: (1) Distributed/mobile systems; (2) programming languages; (3) robotics and autonomy; and (4) theory and algorithms, but applicants in all areas of computer science and engineering are encouraged to apply.



## Open Rank Faculty Positions in Electrical and Computer Engineering University of California, Los Angeles

Building upon its commitment to foster an inclusive environment and promote the success of underrepresented students, the Department of Electrical and Computer Engineering at the UCLA Henry Samueli School of Engineering and Applied Science invites applications for open rank tenure-track faculty positions.

Applicants for the positions must have a demonstrated record of excellence in, or show exceptional promise for, high-quality research, teaching, and professional development. In addition, applicants must have a demonstrated record of interest in, and commitment to, the mentorship of students from underrepresented and underserved populations. The successful candidate will be expected to advance their active mentoring activities and participate in programs that provide research and professional development opportunities for our diverse student body (such as our Center for Excellence in Engineering and Diversity, our Women in Engineering program, and our student organizations listed at <https://samueli.ucla.edu/equity-diversity-and-inclusion/>). Teaching and service expectations will not exceed those of other faculty positions. Applications will be considered at all levels, with a preference for appointments at the Assistant Professor level.

Applicants must have an earned PhD in Electrical and Computer Engineering or closely related discipline at date of hire. The Department is interested in all areas of research traditionally associated with Electrical and Computer Engineering, as well as emerging cross-disciplinary areas. We are interested in outstanding candidates who are committed to excellence in teaching and scholarship and to a diverse campus climate.

Application packages should be submitted online through <https://apptrkr.com/2492865> and include the following documents: 1) curriculum vitae, 2) statement of contributions to equity, diversity, and inclusion with particular attention to mentoring achievements and future mentoring goals, 3) statement of research interest, 4) statement of teaching interest, and 5) a cover letter. Review of applications will begin on November 1, 2021 and continue until the positions are filled.

The University of California 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 University of California Nondiscrimination & Affirmative Action Policy.

This General Data Protection Regulation (GDPR) Statement for Persons in the European Economic Area is designed to provide information regarding the types of personal information that the University of California's Human Resources departments and offices collect.

Please be advised that the final candidate recommended for hire into a critical (or otherwise designated) position will be required to successfully complete a background investigation. Any convictions will be evaluated to determine if they directly relate to the responsibilities and requirements of the position. Having a conviction history will not automatically disqualify an applicant from being considered for employment.

UCLA is a tobacco-free environment. For more information, please view the policy at Tobacco-Free Campus

The Department of Computer Science and Engineering (CSE) offers BS degrees in computer science (accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>), and in computer engineering (accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>), a combined 5-year BS-MS program, a minor in computer science, a Certificate in Data-Intensive Computing, and several joint programs (BS in Computer Science/MBA, BS in Computational Physics, BA in Social Sciences Interdisciplinary - Cognitive Science Concentration, BS in Bioinformatics and Computational Biology - CSE concentration) as well as MS and Ph.D. programs in Computer Science & Engineering.

The University at Buffalo (UB), a member of the prestigious American Association of Universities, is the largest and most comprehensive university in The State University of New York (SUNY) system, with about 22,000 undergraduates and 10,000 graduate students and 1600 full-time faculty. The School of Engineering and Applied Sciences has 7,300 students enrolled across 9 academic departments.

Candidates must hold a doctorate in computer science, computer engineering or a closely related field. Ph.D. must be conferred prior to appointment.

Please apply online at: <https://www.ubjobs.buffalo.edu/postings/30481>

## University of Alabama at Birmingham

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

The Department of Computer Science (CS) at the University of Alabama at Birmingham (UAB) is seeking candidates for a tenure-track or tenured faculty position. While preference is given to candidates at the Assistant Professor rank, highly qualified candidates at Associate Professor will also be considered.

Candidates with expertise in all core CS areas are sought, with preference being given to candidates who could complement and enhance current department strengths in the areas of data science/machine learning/artificial intelligence, and cyber security. UAB has made a significant commitment to both research and teaching in Computer Science. Candidates must consequently have strong research and teaching credentials. Experience and success in funded research are desirable for junior-level candidates and required for senior-level candidates.

The CS Department at UAB offers Ph.D., MS, BS, and BA programs. The Department has a strong research focus, and a strong commitment to teaching, service, and outreach. The Department recently moved to a brand-new facility at University Hall, and one of the strategic goals is to grow the Ph.D., MS, and BS significantly over the next several years. Research funding is expanding significantly, and the Department has a leadership role in a center focusing on Cyber Security. Collaborations with

UAB's medical enterprise are strong and growing, with many opportunities for faculty to participate in interdisciplinary work. For additional information about the Department, please visit: <https://www.uab.edu/cas/computerscience/>

The University of Alabama at Birmingham (UAB) is a comprehensive urban university with the nation's third-largest public hospital, which has rapidly evolved into a world-renowned research university and health care center that ranks in the top ten nationally for student diversity. UAB is a Carnegie Level 1 research university. It has been consistently ranked highly, including being named the 2018 and 2019 Top Young University in the U.S. (top 10 worldwide, Times Higher Education World University Rankings), America's Best Large Employer (Forbes, 2021), and America's No. 4 Best Employer for Diversity (Forbes 2021). UAB is Alabama's single largest employer and an engine of revitalization for Birmingham. With a record enrollment of over 22,500 students, over 2,200 full-time faculty members, and a campus covering more than 100 city blocks, UAB is focused on the future of teaching, research, health care, and community service.

Birmingham is the largest city in Alabama, noted for its vibrant music scene, fine dining, warm weather, excellent schools, and a culture embracing diversity within driving distance to Atlanta, Memphis, Nashville, and New Orleans.

The College of Arts and Sciences (CAS) treasures the rich diversity of our student body and we are committed to their success. Members of the CAS community



are expected to reflect our value for inclusive excellence in both our work and learning environment as well as in our efforts to serve and engage the community.

A Ph.D. in Computer Science or a closely related field is required. Applications should include a cover letter, a curriculum vitae, a list of publications and scholarly achievements, a statement of future research plans, a statement of teaching experience and philosophy, and contact information for at least three professional references.

**Applications and all other materials should be submitted through UAB's portal at PeopleAdmin: <https://uab.peopleadmin.com/postings/9604>.**

Review of candidates will begin on January 10, 2022, and the search will continue until the position is filled.

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable, and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of, race, national origin, age, genetic or family medical history, gender, faith, gender identity, and expression as well as sexual orientation. UAB also encourages applications from individuals with disabilities and veterans. A pre-employment background check investigation is performed on candidates selected for employment.

## University of Alabama at Birmingham

### *Director of Center for Cyber Security*

The Department of Computer Science (CS) at the University of Alabama at Birmingham (UAB) is seeking candidates for a tenured faculty position who will assume the role of the Director of the Center for Cyber Security. Highly qualified candidates at both Associate Professor and Professor rank will be considered.

Candidates with expertise in all areas of cyber security are sought, with preference being given to those whose research lies in the areas of network security, software security, system security, fair and trustworthy machine learning, and cryptography. Candidates should have an excellent track record in conducting world-class scholarly research in cyber security, including success in competitive research funding. They should also have demonstrated an outstanding track record in teaching at both graduate and undergraduate levels and successful supervision of Ph.D. students. In addition, candidates must have an excellent track record in collaborations with not only academic peers but also partners from industries and governments. Further, candidates are expected to have demonstrated an outstanding track record in leadership for scholarly research.

The CS Department at UAB offers Ph.D., MS, BS, and BA programs. The Department has a strong research focus, and a strong commitment to teaching, service, and outreach. The Department recently moved to a brand-new facility at University Hall,

and one of the strategic goals is to grow the Ph.D., MS, and BS significantly over the next several years. Research funding is expanding significantly, and the Department plays a leadership role in the Center for Cyber Security. Collaborations with UAB's medical enterprise are strong and growing, with many opportunities for faculty to participate in interdisciplinary work. For additional information about the Department, please visit: <https://www.uab.edu/cas/computerscience/>.

The University of Alabama at Birmingham (UAB) is a comprehensive urban university with the nation's third-largest public hospital, which has rapidly evolved into a world-renowned research university and health care center that ranks in the top ten nationally for student diversity. UAB is a Carnegie Level I research university. It has been consistently ranked highly, including being named the 2018 and 2019 Top Young University in the U.S. (top 10 worldwide, Times Higher Education World University Rankings), America's Best Large Employer (Forbes, 2021), and America's No. 4 Best Employer for Diversity (Forbes 2021). UAB is Alabama's single largest employer and an engine of revitalization for Birmingham. With a record enrollment of over 22,500 students, over 2,200 full-time faculty members, and a campus covering more than 100 city blocks, UAB is focused on the future of teaching, research, health care, and community service. Birmingham is the largest city in Alabama, noted for its vibrant music scene, fine dining, warm weather, excellent schools, and a culture embracing diversity within driving distance to Atlanta, Memphis, Nashville, and New Orleans.

The College of Arts and Sciences (CAS) treasures the rich diversity of our student body and we are committed to their success. Members of the CAS community are expected to reflect our value for inclusive excellence in both our work and learning environment as well as in our efforts to serve and engage the community. A Ph.D. in Computer Science or a closely related field is required.

Applications should include a cover letter, a curriculum vitae, a list of publications and scholarly achievements, a statement of future research plans, a statement of teaching experience and philosophy, and contact information for at least three professional references. Applications and all other materials should be submitted through UAB's portal at People Admin: <https://uab.peopleadmin.com/postings/9605>

Review of candidates will begin on January 10, 2022, and the search will continue until the position is filled.

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable, and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of ethnicity, gender, faith, gender identity, and expression as well as sexual orientation. UAB also encourages applications from individuals with disabilities and veterans. A pre-employment background investigation is performed on candidates selected for employment. The College of Arts and Sciences (CAS) treasures the rich diversity of our student body and we are committed to their success. Members of the CAS community are expected to reflect our value for inclusive

excellence in both our work and learning environment as well as in our efforts to serve and engage the community.

## University of Alabama at Birmingham

### *Teaching Assistant Professor/Instructor*

The Department of Computer Science (CS) at the University of Alabama at Birmingham (UAB) is seeking candidates for a non-tenure-track assistant professor or instructor (teaching faculty) position, starting as early as Spring 2022.

Candidates with teaching expertise in all core computer science topics are sought, with preference given to Programming, Algorithms and Data Structures, Computer Architecture, Networking, Systems Programming, Operating Systems, Web-based Application Development and Software Engineering. UAB has made a significant commitment to teaching and teaching innovation in Computer Science. Candidates must consequently have strong teaching credentials preferably in a diverse range of areas and ability to advance the teaching strengths of the Department, including application of new results in CS education, establishment of new curricula and labs, online teaching, acquisition of educational grants, and participation in accreditation activities, student recruitment and advising.

The CS Department at UAB offers PhD, MS, BA and BS programs. The Department has a strong research focus, and a strong commitment to teaching, service

and outreach. The PhD, MS, BA and BS enrollments are on the rise, with the goal of growing these programs significantly over the next several years. Research and educational funding are expanding significantly, and the Department plays a leadership role in Cyber Security and Data Science/Machine Learning/AI. Collaborations with UAB's medical enterprise are strong and growing, with many opportunities for faculty to participate in interdisciplinary work. For additional information about the Department, please visit: <https://www.uab.edu/cas/computerscience/>.

The University of Alabama at Birmingham (UAB) is a comprehensive urban university with the nation's third-largest public hospital, which has rapidly evolved into a world-renowned research university and health care center that ranks in the top ten nationally for student diversity. UAB is a Carnegie Level 1 research university. It has been consistently ranked highly, including being named the 2018 and 2019 Top Young University in the U.S. (top 10 worldwide, Times Higher Education World University Rankings), America's Best Large Employer (Forbes, 2021), and America's No. 4 Best Employer for Diversity (Forbes 2021). UAB is Alabama's single largest employer and an engine of revitalization for Birmingham. With a record enrollment of over 22,500 students, over 2,200 full-time faculty members, and a campus covering more than 100 city blocks, UAB is focused on the future of teaching, research, health care, and community service.

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and a culture embracing diversity within driving distance to Atlanta, Memphis, Nashville, and New Orleans.

The College of Arts and Sciences (CAS) treasures the rich diversity of our student body and we are committed to their success. Members of the CAS community are expected to reflect our value for inclusive excellence in both our work and learning environment as well as in our efforts to serve and engage the community.

The candidate should have at least an MS, and preferably a PhD, degree in Computer Science or a closely related field. Industrial experience is desirable but not required. Applications should include a cover letter, a curriculum vitae, a statement of teaching philosophy, a teaching portfolio with relevant materials (e.g., syllabi, teaching evaluations, homework/projects, teaching innovations), and at least two references. Interested applicants please follow this link to apply: <https://uab.peopleadmin.com/postings/9401>.

Review of candidates will begin immediately, and the search will continue until the position is filled. Preference will be given to applications received by October 15th, 2021.

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of, race, national origin, age, genetic or family medical history, gender, faith, gender identity and expression as well as sexual orientation. UAB also encourages applications from individuals with disabilities

and veterans. A pre-employment background investigation is performed on candidates selected for employment.

## University at Buffalo, SUNY

### Cluster Hire in Learning Science

The University at Buffalo, SUNY, is committed to using its research, teaching, and public outreach to better understand and ameliorate structural disparities. COVID-19 and a national reckoning with racism have laid bare the structural inequalities present in school and society and we believe that the interdisciplinary field of Learning Sciences is key to understanding and supporting learners and the multiple contexts in which learning takes place. We also believe that the Learning Sciences is critical to creating innovative new contexts in which more equitable learning can occur. This cluster hire in the Learning Sciences seeks to bring together scholars from across fields – Cognitive Psychology, Computer Science, Education, Architecture—to examine the interrelated dimensions of learning, technology, and educational contexts, with the goal of investigating the roles that new and novel technologies can play in dismantling inequality.

Building on the University at Buffalo's strength in collaborating toward translational research, we seek to hire 5 scholars who value a collaborative work environment and a commitment to utilizing their research to improve social, economic, and educational outcomes for individuals and communities. A key objective of this cluster hire is to generate a community whose knowledge and ideas will

lead to improvements in learning and learning environments through the application and development of cutting-edge technologies and pedagogies across the educational lifespan while also considering the vital need to eliminate persistent inequities. We are especially interested in scholars who seek to engage in translational research related to understanding the impact of technology on learning environments through interdisciplinary convergence. Key affordances associated with these technological domains include accessibility, interactivity, identity development, persistence, perception, and educational outcomes.

The Learning Science cluster hire UB posting is [here](#).

### Graduate School of Education (two positions - Associate/Full Professor and Assistant Professor)

Key scholarly focus areas include, but are not limited to: designing or examining innovative classroom practices, creating and scaling solutions to real-life problems, exploring ways in which learning technologies serve to ameliorate or exacerbate educational and economic inequality, understanding issues facing students or teachers in urban and/or rural settings, exploring the intersections of cognition and emerging technologies on teaching and learning, and/or exploring learning technologies in sociocultural contexts.

<https://www.ubjobs.buffalo.edu/postings/30307>

For more information about the position, please contact the search chair, Dr. Sam Abramovich [samuelab@buffalo.edu](mailto:samuelab@buffalo.edu)

## College of Arts and Sciences (Assistant/ Associate Professor)

Key scholarly focus areas include, but are not limited to: cognitive development, gamification, concept formation, cognitive diversity, developmental disorders, perceptual expertise, cognitive plasticity and aging, computational modeling, cognitive science, or cognitive neuroengineering, but the specific area of study within learning research is open.

<https://www.ubjobs.buffalo.edu/postings/30305>

For more information about the position, please contact search chair Dr. Eduardo Mercado ([emiii@buffalo.edu](mailto:emiii@buffalo.edu))

## School of Architecture and Planning (Assistant Professor)

Key scholarly focus areas include, but are not limited to: virtual reality, augmented reality, gaming, or experimental media in design, fabrication, construction, client/ stakeholder communication, or architectural education.

<https://www.ubjobs.buffalo.edu/postings/30302>

For more information about the position, please contact search chair Dr. Korydon Smith ([khsmith@buffalo.edu](mailto:khsmith@buffalo.edu))

## School of Engineering and Applied Sciences (Assistant Professor)

Key scholarly focus areas may include, but are not limited to: Computing education in both formal and informal settings; Applications of computer vision, machine learning, natural language processing, interactive information retrieval, and other

emerging AI technologies for teaching and learning; Bias, equity, privacy, and other ethical issues associated with the applications of AI for teaching and learning; Artificial Intelligence with a focus on Human Factors or Human Computer Partnerships for enhanced teaching and learning.

<https://www.ubjobs.buffalo.edu/postings/30304>

For more information about the position, please contact search chair Dr. Junsong Yuan ([jsyuan@buffalo.edu](mailto:jsyuan@buffalo.edu))

## The School of Engineering and Applied Sciences (SEAS) at the University at Buffalo – The State University of New York

(SUNY) has an opening for a tenure-track faculty with a focus on learning science and artificial intelligence at the Assistant Professor level. You will join a cross-department (Computer Science & Engineering and Engineering Education), interdisciplinary team of researchers in Learning Science, Education, Computer Science and Engineering, and Cognitive Science whose collective efforts are moving Buffalo to become a leading center for interdisciplinary learning science research. We are seeking individuals with active research programs who have exhibited potential for high-impact research and extramural funding. We are especially interested in candidates who value a collaborative work environment and a commitment to utilizing their research and teaching to improve social, economic, and educational outcomes for underrepresented individuals and communities. Applicants will be expected to contribute to teaching and supervision of both graduate and undergraduate students.

## QUALIFICATIONS

Candidates must hold a Ph.D. degree in computer science, electrical engineering, or related areas. The position values applicants who bring rigorous skills in post-professional research methodologies, as well as the ability to pursue external funding, build industry or community-based partnerships, and work on and lead transdisciplinary projects.

## ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering (CSE) offers BS degrees in computer science (accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>), and in computer engineering (accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>), a combined 5-year BS-MS program, a minor in computer science, a Certificate in Data-Intensive Computing, and several joint programs (BS in Computer Science/MBA, BS in Computational Physics, BA in Social Sciences Interdisciplinary – Cognitive Science Concentration, BS in Bioinformatics and Computational Biology – CSE concentration) as well as MS and PhD programs in Computer Science & Engineering. The department currently has over 40 tenure-track faculty, 12 teaching faculty and approximately 1,200 undergraduate majors, 550 masters' students and 160 PhD students. Over twenty junior faculty members have been hired since 2010, and we are continuing to expand. Two members of our faculty currently hold key university leadership positions, and eight members of our faculty are IEEE and/or ACM Fellows. The department is well known for offering

excellent collaborative and nurturing environment for faculty. Recently, a cohort of five junior faculty received the CAREER awards in 2019, setting a national record.

The Department of Engineering Education (DEE) is a new interdisciplinary department (established in 2018) that aims to advance the engineering profession and transform the way in which students are educated. The department has 7 tenure-track faculty members and 12 teaching faculty. The faculty are engaged in research in a wide variety of topics including, implementation of diversity and inclusion activities, assessment of educational interventions, non-traditional and informal learning programs as well as fundamental research in core areas such as pedagogy, student learning, curricular design, and student success factors. For those interested in pursuing a career in engineering education, we provide graduate-level instruction in education theory in combination with research methods for studying and improving current knowledge. For those pursuing a career in other branches of engineering, we provide graduate-level instruction in the practical application and utilization of education theory in classrooms and other teaching environments. The vision of the Department of Engineering Education is to lead in both the discovery of research-proven educational innovations for engineering and the propagation, scaling and translation of those innovations to classroom practice.

The University at Buffalo is New York State's largest and most comprehensive public university. A premier center for

graduate and professional education, UB is a member of the prestigious Association of American Universities, placing it among leading research-intensive universities in the United States.

UB also holds a strong international reputation, ranking 23rd in international student enrollment. As a public institution, UB also provides a top-tier education for students from diverse geographic, racial and ethnic, and socioeconomic backgrounds. More than a third of undergraduates are Pell eligible (an indicator of financial need), the second-highest percentage among AAU institutions. Financial need is particularly high among minoritized students (about half of UB's first-year students are non-white).

#### **ABOUT UB**

The University at Buffalo is SUNY's most comprehensive public research university, and an outstanding place to work. UB amplifies ambition for faculty and staff by offering endless possibilities to achieve more. Here, people from all backgrounds and cultures challenge and inspire each other to discover, learn and succeed. Dedicated staff and engaged faculty collaborate to further knowledge and understanding and develop tenacious graduates who are valued for their talents and their impact on global society. Visit our [website](#) to learn more about the University at Buffalo.

#### **HOW TO APPLY**

The application package should consist of a letter of interest (cover letter), a curriculum vitae, a Teaching Statement, a Research Statement; a Diversity Statement and contact information for three references.

The letter of interest should include: (a) an overview of the candidate's background and expertise, (b) an articulation of the candidate's scholarly and/or creative interests and specialized skills, and (c) a brief description of the candidate's teaching philosophy and experience. The Research Statement and Teaching Statement should include more comprehensive details of the candidate's trajectory of work, how it engages the grand challenge of education equality, and how it resides at the intersection of the building sciences, learning sciences, and computing.

Applicants must answer the following question submitted as "Diversity Statement." Applications submitted without a response to this question will not be considered: "Please give an example of when you have changed or altered your approach to research based on your knowledge and awareness of underserved or underrepresented populations, and/or underreporting of relevant data stemming from explicit or implicit bias."

*University at Buffalo is an affirmative action/equal opportunity employer and, in keeping with our commitment, welcomes all to apply including veterans and individuals with disabilities.*

## **University of Chicago**

### *Instructional Professor (open rank)*

The Department of Computer Science in the Physical Sciences Division at the University of Chicago invites applications for teaching positions for the position of Instructional Professor (open rank). The selected candidate will be appointed as

Assistant Instructional Professor, Associate Instructional Professor, or Instructional Professor, depending on qualifications and educational background. The appointment will be for a term of up to five years, renewable. This is a career-track position with potential progression, competitive salary, and benefits.

The terms and conditions of employment for this position are covered by a collective bargaining agreement between the Service Employees International Union (SEIU) and the University.

The University of Chicago is in the midst of an ambitious, multi-year effort to significantly expand its computing and data science. We seek individuals who can help us fulfill our educational objectives. Position responsibilities include teaching (average teaching load is two courses per quarter in the fall, winter and spring quarters), non-classroom instructional or service duties as needed, and professional development.

Candidates must have either:

- A doctorate in Computer Science or a related field at the time of appointment or;
- A masters degree and 4 years of relevant professional experience.

Prior university-level teaching experience, either as an instructor of record or as a teaching assistant, is required.

Candidates who are qualified to teach courses in one or more of the following areas are preferred: introduction to programming, computer systems, databases, data engineering, data visualization, and machine learning.

Applications must be submitted online through the University of Chicago's Academic Jobs website: [apply.interfolio.com/93078](https://apply.interfolio.com/93078).

Review of applications will begin on October 15, 2021 and will continue until all positions are filled.

The following materials are required:

- cover letter;
- curriculum vitae;
- description of teaching philosophy and experience; ability to interact with a diverse group of students is valued. Must include a list of courses that the candidate is qualified to teach;
- applicants are required to request at least three confidential letters of recommendation via Interfolio.

Optional: Candidates may submit teaching evaluations.

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.

The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual

with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email [equalopportunity@uchicago.edu](mailto:equalopportunity@uchicago.edu) with their request.

## University of Chicago

### *Senior Instructional Professor (open rank)*

The Department of Computer Science in the Physical Sciences Division at the University of Chicago invites applications for positions at the rank of Senior Instructional Professor (open rank). The selected candidate will be appointed as Associate Senior Instructional Professor or as Senior Instructional Professor with rank determined by qualifications and years of experience in a similar role. The appointment will be for a term of up to five years, renewable. This is a career-track position with competitive salary and benefits.

The University of Chicago is in the midst of an ambitious, multi-year effort to significantly expand its computing and data science activities including a newly-opened, state-of-the-art home for the Department of Computer Science.

Position responsibilities include supervision and training of Instructional Professor rank appointees in Computer Science, as well as teaching (average load is four courses per academic year).

A Ph.D. in Computer Science or a related field is required.

A minimum of 1800 units as an instructor of record for undergraduate and/or graduate course offerings in Computer Science or a related field over the span of six calendar years is required for Associate Senior Instructional Professor.

A minimum of 3000 units as an instructor of record for undergraduate and/or graduate course offerings in Computer Science or a related field over the span of six calendar years is required for Senior Instructional Professor.

See <https://registrar.uchicago.edu/records/transcripts/transcript-key/credit-conversion-chart-equivalencies/> for equivalencies between teaching units and semester/quarter hours.

Preferred qualifications: Candidates who are qualified to teach undergraduate courses in one or more of the following areas are preferred: introduction to computer science and programming, computer systems, databases, data engineering, data visualization, and machine learning.

Candidates with experience training and supervising instructors in a university setting are preferred.

Applications must be submitted online through the University of Chicago's Academic Jobs website: [apply.interfolio.com/93079](https://apply.interfolio.com/93079).

Review of applications will begin on October 15, 2021 and will continue until all positions are filled.

The following materials are required:

- cover letter;
- curriculum vitae, including a list of publications;
- description of teaching philosophy and experience; must include a list of courses that you are qualified to teach;
- at least three teaching evaluations from at least two distinct classes;
- applicants are required to request at least three confidential letters of recommendation via Interfolio.

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.

The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email [equalopportunity@uchicago.edu](mailto:equalopportunity@uchicago.edu) with their request.

## University of Dallas

### *Assistant Professor of Computer Science*

The University of Dallas invites applications for a tenure-track position as Assistant Professor of Computer Science, to start in Fall 2022.

The teaching load for this position is three courses each semester, drawn from the computer science and mathematics curricula, and will typically include at least four computer science courses each academic year. In addition, candidates are expected to engage in research and professional activities in accordance with department guidelines for tenure and promotion, and to share in serving the needs of the department and university as outlined in the faculty handbook.

#### **PRIMARY RESPONSIBILITIES**

- Prepare and deliver instruction to undergraduate students.
- Invite, facilitate, and moderate classroom discussion.
- Evaluate and grade student coursework.
- Maintain student attendance records, grades, and other required records.
- Plan, evaluate, and revise course content, course materials, and methods of instruction.
- Maintain regularly-scheduled office hours to advise and assist students.
- Communicate with students to provide necessary guidance and assistance.
- Maintain an active research program, including publishing in reputable proceedings and/or journals.

- Engage in service to the department, college and university.

## MINIMUM REQUIREMENTS

- Ph.D. in computer science or a related field, by August 2022
- Ability to teach both computer science and mathematics courses

## PREFERRED QUALIFICATION

- Interest in coaching a competitive programming team

## APPLICATION

Applications for the position should be made online and must include a cover letter indicating your interest in the position and qualifications to teach both computer science and mathematics courses; a curriculum vitae; a statement on teaching and a statement of research plans; and three letters of recommendation, at least one addressing teaching and at least one addressing research.

Applications completed by October 1 will receive full consideration.

All applications should be submitted online at: <https://hr.udallas.edu/apply/>

## The University of Delaware-Newark, Delaware

*Chair, Department of Computer and Information Sciences*

The University of Delaware seeks exceptional candidates who are dynamic and visionary leaders for the position of Chair of the Department of Computer and Information Sciences. The CIS is a

key department targeted for expansion at UD, located between Washington, DC and New York City, and about one hour away from Baltimore and Philadelphia. The Department has grown its faculty by 40% in the past five years and this growth is expected to continue to further accelerate its multidisciplinary research portfolio. The incoming Chair will lead a team of 35 primary faculty (10 female faculty), 4 research faculty, and 5 administrative staff. The Department provides first-rate programs and research activities for the 110 graduate students and 550 undergraduate students, in addition to undergraduate minors and interdisciplinary graduate students.

Applicants should have a Ph.D. in Computer Science or a related field, a distinguished record of scholarship, a commitment to teaching excellence, demonstrated experience and ability in fostering diversity and collegiality, and experience in working cooperatively and effectively with faculty, staff, and the administration. The Chair will lead the Department to advance its reputation, further ties across the University, and connect with external communities and stakeholders. Exceptional candidates may be considered for a Named Professorship.

For more information, including UD's Equal Employment Opportunity statement, please see: <https://careers.udel.edu/en-us/job/496819/chairperson-computer-information-sciences>

## University of Florida

*Tenured-track Assistant Professor Positions in AI*

The J. Crayton Pruitt Family Department of Biomedical Engineering at the University of Florida will be recruiting **two** full-time, nine-month, tenure-track faculty at the rank of assistant professor.

**RESEARCH AREAS:** We are seeking candidates to lead research programs at the interface of **(1) artificial intelligence and multi-omics data science** and **(2) artificial intelligence and neuroscience**.

**Full details describing the positions and the application process can be found on the University of Florida's Academic Jobs website:** [https://jobs.ufl.edu/reference\\_position\\_number\\_80914](https://jobs.ufl.edu/reference_position_number_80914).

The University of Florida is an equal opportunity employer. Women and minorities are encouraged to apply.

## University of Kentucky

*Assistant Professor in Computer Science*

The Department of Computer Science at the University of Kentucky invites applications for tenure-track faculty positions to begin August 2022. We seek excellent candidates in all areas, with specific needs in data science, software engineering, security, and systems. A demonstrated ability to collaborate with diverse teams to address grand societal challenges is highly desirable. We will consider all ranks, with preference for candidates at the assistant professor



level. Tenure-track faculty are expected to build a strong research program in their chosen area and to be dedicated teachers, contributing to our instructional offerings at both undergraduate and graduate levels.

The Department, housed within the College of Engineering, has 23 faculty members. We aim to be a diverse community of researchers and educators pursuing pioneering research in computer science as well as interdisciplinary research collaborations at the university and beyond; offering all students the highest quality instructional programs including Bachelor's, Master's, and Ph.D. degrees in Computer Science, Master's degree in Data Science, and Bachelor's, Master's, and Ph.D. degrees in Computer Engineering; expanding our reach to marginalized and underrepresented students, including but not limited to persons of color, international, first-generation, veterans, those who are differently-abled, and LGBTQ\*; and serving the professional, local, state and global communities. The degree programs in Computer Engineering are offered in collaboration with the Department of Electrical and Computer Engineering Department; the undergraduate programs in Computer Science and in Computer Engineering are ABET-accredited.

The University of Kentucky is one of eight institutions in the United States with colleges of agriculture, arts and sciences, business, engineering, law, medicine, and pharmacy all on a single campus, making it uniquely suited for diverse interdisciplinary collaborations. Located in Lexington, one of the safest, most creative and well-educated cities in the nation, we offer an

ideal setting in which to build a successful work-life balanced career. Lexington is the heart of the scenic Bluegrass Region, with many outdoor recreation opportunities and excellent public and private schools.

Applications are now being accepted. Review of submissions will begin immediately and continue until the positions are filled. Candidates must have earned a Ph.D. in Computer Science or closely related field at the time employment begins. To apply, a University of Kentucky Academic Profile must be submitted at the following link: <https://ukjobs.uky.edu/postings/349510>. Applicants should submit a cover letter, full curriculum vitae, research statement (upload under Specific Request 1), teaching statement (upload under Specific Request 2), and contact information for a minimum of three references when prompted in the application.

Questions should be directed to HR/Employment by phone at 1-859-257-9555 (press 2) or email ([ukjobs@email.uky.edu](mailto:ukjobs@email.uky.edu)), or to Diane Mier ([diane.mier@uky.edu](mailto:diane.mier@uky.edu)) in the Computer Science Department. Upon offer of employment, successful applicants must undergo a national background check as required by the University of Kentucky Human Resources. The University of Kentucky is an equal opportunity employer and especially encourages applications from minorities and women.

## University of Maine

### *Assistant Professor of Computer Science*

The University of Maine School of Computing and Information Science ([umaine.edu/scis](http://umaine.edu/scis))

seeks applicants for a tenure-track Assistant Professor position, with an anticipated start date of August 29, 2022 (or January 15, 2022). Our primary target focus is the broad areas of computing education, artificial intelligence, data science, and the applications and impacts of computing, but we will consider qualified candidates in all areas.

Essential duties and responsibilities. These include, but are not limited to:

- Establish and sustain a dynamic research program in the field of expertise, yielding well-placed publications and supported by external awards
- Be an engaging teacher, adviser, and mentor at both the undergraduate and graduate levels, typically offering three courses per year
- Engage in activities to support inclusive excellence
- Participate actively in the development of innovative computing curricula
- Engage in service to the School, College, University, and profession

Qualifications. We are particularly interested in candidates who complement the School's existing research strengths in Artificial Intelligence (AI), Data Management, Machine Learning, Human Computer Interaction (HCI), Privacy/Security, Data Visualization, and Spatial Informatics with potential for collaborations within the School. The ability to contribute to campus-wide Signature and Emerging areas of excellence in Data Science and STEM Education Research also would be viewed favorably. Candidates should have a strong research profile as demonstrated by relevant and

recent contributions in top peer-reviewed conferences and journals. Successful teaching experience and documented participation in activities promoting inclusive excellence are also highly desired. A PhD in computer science or a closely related discipline is required by date of hire.

To Apply, visit: <https://umaine.hiretouch.com/job-details?jobID=67934&job=assistant-professor-of-computer-science>

## University of Maryland, College Park

### Maryland Cybersecurity Center Faculty Member

The Maryland Cybersecurity Center (MC2) has openings for multiple tenured and/or tenure-track faculty positions in cybersecurity and privacy, broadly defined. Strong candidates will be considered in all areas of cybersecurity and privacy. Candidates with interdisciplinary backgrounds connecting security and privacy to other domains are strongly encouraged to apply. Successful applicants will have a tenure home either with the Department of Computer Science or the Department of Electrical and Computer Engineering at the University of Maryland and will also have a joint appointment at the University of Maryland Institute for Advanced Computer Studies (UMIACS). The Maryland Cybersecurity Center is committed to building a diverse faculty pre-eminent in its mission of research, education, and service to the community: we strive to create an inclusive environment where every member of our community feels

that they belong and are empowered to reach their full potential. We especially encourage applications from women and underrepresented minorities. In addition, candidates who have experience and/or interest engaging with a diverse range of faculty, staff, and students in promoting and fostering inclusivity are encouraged to discuss their perspectives on these subjects in the application materials.

The Maryland Cybersecurity Center and the departments of Computer Science and Electrical and Computer Engineering at the University of Maryland are consistently ranked in the top 15 among U.S.-based institutions. In 2019, the Maryland Cybersecurity Center moved into its new state-of-the-art facility, the Brendan Iribe Center for Computer Science and Engineering. Additional information about the Maryland Cybersecurity Center, the Department of Computer Science, the Department of Electrical and Computer Engineering and UMIACS is available at <https://www.cyber.umd.edu/>, <https://www.cs.umd.edu>, <https://www.ece.umd.edu>, and at <https://www.umiacs.umd.edu>. Information about the university's work and family policies can be found at <https://go.umd.edu/workfamily>.

Interested candidates should apply online at <https://ejobs.umd.edu/postings/86992>. Search under Faculty for position 105032. Applications will be accepted until all positions are filled, but for best consideration please upload all materials by Dec 1, 2021. Questions for the faculty recruitment committee can be sent to [jobs@umd.edu](mailto:jobs@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 Miami

### CoE - Faculty Data Science (Asst. Prof./Assoc. Prof./Professor)

The department of Electrical and Computer Engineering (ECE) at the University of Miami

(UM) invite applications for tenure-track faculty positions. All levels (Assistant, Associate or Full Professor) will be considered. Candidates are being targeted for a cluster of hires within the CoE in the area of Data Science. Preference will be given to candidates with research in artificial intelligence and data analytics. Other areas including cybersecurity, cyber physical systems, autonomous vehicles, Internet of Things, and edge computing will also be considered.

You may apply here: [https://umiami.wdl.myworkdayjobs.com/en-US/UMFaculty/job/Coral-Gables-FL/CoE---Faculty--Asst-Prof-Assoc-Prof-Professor\\_R100048536-1](https://umiami.wdl.myworkdayjobs.com/en-US/UMFaculty/job/Coral-Gables-FL/CoE---Faculty--Asst-Prof-Assoc-Prof-Professor_R100048536-1)

Initial screening of applications will begin immediately, with hires expected to start as early as January 2022 or later. If you have any questions, please feel free to contact the Chair of the Search Committee, Dr. Jie Xu ([jiexu@miami.edu](mailto:jiexu@miami.edu))

The University of Miami embraces diversity as an Equal Opportunity Employer. Applications from women and under-represented minority groups are strongly encouraged

## University of Michigan

*Clinical Assistant or Clinical Associate Professor in Digital Archives, Libraries, and Curation*

The School of Information at the University of Michigan (UMSI) seeks clinical professors at the assistant or associate professor levels in the field of Digital Archives, Libraries, and Curation. UMSI seeks applicants who can contribute to the

missions of the school and the university. For more information about the position and application instruction, please visit: <https://www.si.umich.edu/about-umsi/prospective-faculty>. Job duties include teaching, research, and service.

### Minimum Requirements

- Master's Degree in an area such as information, library or archival science, or a related discipline
- Outstanding contributions to professional engagement and practice; at the Associate level leadership in professional engagement and practice
- Scholarly or professional products or activities that have impact in digital libraries, archives and/or curation
- A strong interest in teaching at the undergraduate and graduate levels
- A strong commitment to interdisciplinary professional research and diversity

### U-M EEO/AA Statement

The University of Michigan is an equal opportunity/affirmative action employer.

## University of Michigan

*Computer Science & Engineering Faculty Positions*

Computer Science and Engineering (CSE) at the University of Michigan College of Engineering invites applications for multiple tenure-track and teaching faculty (lecturer) positions, as part of its aggressive long-term growth plan. We seek exceptional candidates in all areas across computer science and computer engineering and across all ranks. Qualifications

include an outstanding academic record; an awarded or expected doctorate (or equivalent) in computer science, computer engineering, or a related area. We seek faculty members who commit to excellence in graduate and undergraduate education, will develop impactful, productive and novel research programs, and will contribute to the department's goal of eliminating systemic racism and sexism by embracing our culture of Diversity, Equity and Inclusion.

We will begin reviewing applications as soon as they are received starting October 1st, 2021 and continuing throughout the year. For more details on these positions and to apply, please visit <https://cse.engin.umich.edu/about/faculty-hiring/>.

The University of Michigan is one of the world's leading research universities, consisting of highly ranked departments and colleges across engineering, sciences, medicine, law, business, and the arts, with a commitment to interdisciplinary collaboration. CSE is a vibrant and innovative community, with over 70 world-class faculty members, over 300 graduate students, and a large and illustrious network of alumni. Ann Arbor is known as one of the best small cities in the nation.

Michigan Engineering's vision is to be the world's preeminent college of engineering serving the common good. This global outlook, leadership focus, and service commitment permeate our culture. Our vision is supported by our mission and values that, together, provide the framework for all that we do. Information about our vision, mission and values can be found at <http://strategicvision.engin.umich.edu/>.

The University of Michigan has a demonstrated legacy of commitment to Diversity, Equity and Inclusion (DEI). The Michigan Engineering component of the University's comprehensive,

five-year, DEI strategic plan—with updates on our programs and resources dedicated to ensuring a welcoming, fair, and inclusive environment—can be found at: <http://www.engin.umich.edu/college/about/diversity>. CSE is firmly committed to DEI and improving our climate through transparent communication and effective action, as shown in our annual report: <https://cse-climate.engin.umich.edu/reports/climate-dei-reports/cse-climate-dei-report-20-21/>.

## U-M COVID-19 Vaccination Policy

COVID-19 vaccinations are now required for all University of Michigan students, faculty and staff across all three campuses, including Michigan Medicine, by the start of the fall term on August 30, 2021. This includes those working or learning remotely. More information on this policy is available on the [Campus Blueprint](#) website.

The University of Michigan is an equal opportunity/affirmative action employer, and is responsive to the needs of dual career families.

## University of Missouri - Columbia

### Assistant, Associate, and Full Professor Positions

The Department of Electrical Engineering and Computer Science (EECS) at the University of Missouri invites nominations and applications

for several tenure-track/tenured positions in Electrical Engineering, Computer Engineering and Computer Science at the rank of Assistant, Associate, and Full Professor based on experience level and the background of the applicant as well as two non-tenure-track (NTT) faculty positions at all levels in Computer Engineering and Computer Science.

For the tenure-track/tenured positions, applicants must have a Ph.D. in Electrical Engineering, Computer Engineering, Computer Science, or a closely related field. The fields of interest include power electronics, power systems, microelectronic devices and circuits, sensors, wireless communications, neural engineering, signal processing, embedded computing, computer architecture, quantum computing, image analysis, computer vision, geospatial intelligence, software engineering, data science, machine learning, artificial intelligence, bioinformatics, physics-based computational modeling and cybersecurity. The faculty member will work closely with multiple departments or groups to grow their research area. The College of Engineering is especially interested in qualified candidates who can contribute, through their research teaching, and/or service, to the diversity and excellence of the academic community.

For more information and to apply online, visit the MU website at



### Assistant Professor of Practice, Data Science

This is a faculty position that will be responsible for developing and delivering a range of lecture content for the M.S. in Data Science program (housed on Pacific's San Francisco campus). The faculty member will report to the Director of the M.S. in Data Science program at the University of Pacific's Stockton campus.

#### Essential Functions (In order of importance):

- Teaching: development and delivery of key M.S. Data Science courses (lectures), in areas such as: Machine learning, Data visualization, Storytelling with data, Data engineering, and Applications of data science.
- Oversee M.S. Data Science Capstone project teams, support, and grow Capstone program.
- Assist the M.S. Data Science program director in the ongoing development and evolution of the M.S. Data Science program.
- Assist development and growth of other data-related departments and units across the university, including M.S. Business Analytics and undergraduate programs.
- Other duties as assigned.

#### Minimum Qualifications:

- Minimum of PhD in relevant field.
- Two or more (2+) years of university level teaching.
- Knowledge and experience in machine learning.
- Excellent lecture / presentation skills.
- Ability to work in a fast paced, entrepreneurial environment with cross-functional teams and multiple stakeholders.
- Positive attitude, proven ability to work successfully with diverse populations and commitment to promote diversity and inclusion.

#### Preferred Qualifications:

- Expertise/experience with data visualization techniques and platforms.
- Certification in data science areas, such as Tableau, AWS, Google, DASCA, Tensorflow, etc.

#### Physical Requirements:

The physical demands described here are representative but not definitive of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Requires extended periods of sitting and repetitive hand/wrist motion while using computer keyboard and phone. Occasional standing, walking, climbing stairs, bending, stooping and reaching. Occasional lifting up to 25 pounds.

#### Work Environment/Work Week/Travel:

Work is primarily performed in a standard office environment with use of computer and phone. Occasional travel between San Francisco and Stockton locations will be required. Travel to meet with industry partners/stakeholders will be necessary.

Valid driver's license required. Incumbent must also be able to meet the University's fleet rules and be eligible to drive for University business. The University's insurance carrier reserves the right to exclude applicants based on their driving record.

#### Special Instructions:

For first consideration, please apply on or before June 15, 2021.

To apply, visit <https://apptrkr.com/2468219>

*University of the Pacific is an affirmative action and equal opportunity employer dedicated to workforce diversity. In compliance with applicable law and its own policy, Pacific is committed to recruiting and retaining a diverse faculty and staff and does not discriminate in its hiring of faculty and staff, or in the provision of its employment benefits to its faculty and staff on the basis of race, color, religion, national origin, ancestry, age, genetic information, sex/gender, marital status, military and veteran status, sexual orientation, medical condition, pregnancy, gender identity, gender expression, or mental or physical disability.*

<https://engineering.missouri.edu/faculty-careers/> for position #37865 (tenure-track) and #38021 (non-tenure-track) positions.

For the non-tenure-track faculty positions, applicants must have at least an M.S. in Computer Engineering, Computer Science, or a closely related field. A Ph.D. degree is preferred. Candidates should have a strong background in the fundamentals of Computer Engineering or Computer Science. Experience in undergraduate teaching in respective discipline will be highly desirable.

The Successful candidates must be eligible to work in the United States.

MU specifically invites and encourages applications from qualified women and members of groups underrepresented in science.

Equal Opportunity/Affirmative Action/ADA employer firmly committed to fostering ethnic, racial, and gender diversity in our faculty.

## University of Richmond

*Assistant, Associate or Full Professor in Computer Science*

The University of Richmond Department of Mathematics and Computer Science invites applications for a full-time tenure-track position at the rank of Assistant, Associate or Full Professor starting in the 2022-23 academic year.

View full details and apply here: <https://richmond.csod.com/ats/careersite/JobDetails.aspx?site=I&id=2292>

## University of South Florida

*Tenure Track Faculty Positions (all ranks)*

*The University of South Florida invites applications for tenure-track positions at all ranks Computer Science and Engineering*

Applications are invited for multiple tenure-track positions at all ranks in the Department of Computer Science and Engineering starting January or August 2022. Preference will be given to candidates in strategic research areas that have high funding potential from federal funding agencies including NSF, NIH, DARPA, etc. Candidates should have an established record of outstanding-quality research publications and a commitment for excellence in teaching. We expect successful candidates to contribute to our diversity and inclusion efforts. Candidates must have completed a PhD in computer science or a related discipline at the time of starting the position. Affiliation with the [USF Institute for Artificial Intelligence + X](#) and/or the [Institute of Applied Engineering](#) is possible for candidates with research areas that meet the institute needs. The Institute for AI + X is a university wide research and education center for AI with a focus on collaboration across disciplines. The Institute of Applied Engineering provides agile, best-value engineering solutions to enhance the performance, effectiveness and safety of its sponsors, including the Department of Defense; other federal, state and local agencies; and industry.

[Computer Science and Engineering](#) has 28 tenure-track/tenured faculty members, 12 instructors, 3 visiting assistant professors,

and 6 staff members/advisors, and offers BS, MS, and PhD degrees, serving over 2000 undergraduates, about 120 masters, and about 100 PhD students. USF CSE has a strong working relationship with [CyberFlorida](#). CSE ranks include twelve NSF CAREER awardees, one National Academy of Inventors (NAI) Fellow, three IEEE Fellows, three IAPR Fellows, three AAAS Fellows, and three AIMBE Fellows. USF CSE is in the top 10% of Computer Science departments in US public universities. This ranking is according to most recent Academic Analytics data based on Scholarly Research Index AAD2019 using default weights for grants, articles, conferences, awards, and citations. The Computer Engineering graduate program was ranked #52 among US public universities by US News and World Report (2021). USF CSE faculty members have 38 issued patents, own 6 copyrights, and have executed 13 license/option agreements between FY2016-FY2020.

The College of Engineering at the University of South Florida comprises seven departments, serving nearly 6,000 students and offers ABET-accredited undergraduate degrees in seven programs, as well as 12 master's and eight doctoral degrees. The College is ranked #55 among public universities in the USNWR 2021 Best Engineering Graduate Program Rankings. The College has 12 major research centers and institutes and is actively engaged in local and global research activities with a focus on sustainability, biomedical engineering, computing technology and transportation. For the fiscal year 2019-2020, the College had \$39 million in research expenditures.

The University of South Florida is a high-impact global research university dedicated to student success. Over the past 10 years, no other public university in the country has risen faster in U.S. News and World Report's national university rankings than USF. Serving more than 50,000 students on campuses in Tampa, St. Petersburg and Sarasota-Manatee, USF is designated as a Preeminent State Research University by the Florida Board of Governors, placing it in the most elite category among the state's 12 public universities. USF has earned widespread *national recognition* for its success in graduating under-represented minority and limited-income students at rates equal to or higher than white and higher-income students. USF is a member of the American Athletic Conference. Learn more at [www.usf.edu](http://www.usf.edu).

An application package should include a cover letter, curriculum vitae, statements describing research and teaching experience and goals, and the names and contact information of at least three references (one of which must be the current immediate supervisor of the applicant). Applicants must electronically submit the application packet as one PDF file to: <https://www.usf.edu/work-at-usf/careers>. For consideration, please apply to the appropriate position level (Assistant Professor, search Job ID #27778, Associate Professor, Search Job ID #27779, Full Professor, search Job ID #27780).

Applications will be considered starting immediately.

The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action

Institution. Women and minorities are strongly encouraged to apply. Dual career couples with questions about opportunities are encouraged to contact the Department chair. To request disability accommodations in the application and interview process, please notify Khoa Dinh, the EOL Coordinator at (813) 974-9272 at least five working days in advance.

## University of Sydney

### *Multiple Continuing Academic Positions*

Join a growing Faculty and be part of a University that places amongst the world's best teaching and research institutions. Located in the heart of Sydney's bustling inner west quarter, close to beaches, parks, public transport and shopping districts.

Seeking outstanding academics to provide leadership and help create a world-class, internationally recognised Faculty for research and education excellence.

You will be expected to develop an outstanding independent research program, make internationally recognised advances and engage in collaborations within and outside the University, including with industry partners. You will also contribute to innovative curriculum development and delivery at both undergraduate and graduate levels and contribute to the management and leadership of the School and the University.

### **How to Apply**

All applications must be submitted via the University of Sydney careers website. Visit [Multiple Continuing Academic Positions, School of Computer Science](#) to apply.

Closing Date: 11:59 pm, 30 November 2021 (Sydney time)

## University of Wisconsin-Madison

### *Research Associate (Postdoctoral)*

Drs. Matthew Churpek, MD, PhD, and Majid Afshar, MD, MS, of the University of Wisconsin Churpek/ Afshar Data Science Lab, are seeking a post-doctoral research associate to contribute to cutting-edge research in the field of health informatics with a focus in health outcomes, applied machine learning, and high-throughput phenotyping.

### **Job Duties:**

The individual will use computational methods for representing and analyzing data from the electronic health record for clinical applications to improve health outcomes in hospitalized patients. The diversity of subject matter will require a multidisciplinary candidate with a background in machine learning, statistics, health information technology, and data management to derive and validate clinical decision support tools for the electronic health record. We are looking for a candidate who could fill a Deep Learning subspecialty in our lab.

The Research Associate will be expected to lead manuscripts and participate in multicenter collaborations under close mentorship by a multidisciplinary team of physician-scientists, clinical informatics experts, biostatisticians, and computer scientists.

## Requirements:

- PhD degree in computer science/ engineering, information science, computational linguistics, biomedical informatics, biostatistics, data science, or a closely related field;
- Experience in research; ability to plan and carry out research experiments and projects in the clinical arena.
- Experience in the field area of deep learning. Additional experience in medical terminologies/ontologies is strongly encouraged.
- Strong programming experience (e.g., Python, Java, R, SAS).
- Strong written and oral communication skills required.
- Ability to work both independently and as a team player.

Begin Date: September 13, 2021 or thereafter.  
The position is renewable annually.

Percent Time: 100%

Salary: Competitive for the field of health informatics and computer science

Interested candidates should email the following application materials to Madeline Oguss, [mkoguss@medicine.wisc.edu](mailto:mkoguss@medicine.wisc.edu):

- Cover letter/summary statement of personal objective and research interests.
- Curriculum Vitae

Note: Two letters of reference or reference contact information will be requested of finalists

## Vanderbilt University

### Tenure-Track Faculty Positions in Computer Science (Destination Vanderbilt)

The Department of Computer Science (CS) launched in 2020 a multi-year faculty recruitment and hiring process for 20 tenure-track positions at the Assistant, Associate, and Full Professor levels over and above normal hiring patterns, with preference at early-career appointments. In the first year of the initiative, the department welcomed eight new faculty members. In the second year, the initiative will support at least eight new faculty positions starting in the 2022-2023 academic year. Destination Vanderbilt-CS is part of the university's recently launched Destination Vanderbilt, a \$100 million university excellence initiative to recruit new faculty. Over the next three years, the university will leverage the investment to recruit approximately 60 faculty who are leaders and rising stars in their fields. All hires who are part of this initiative are over and above the normal faculty hiring rate at the university.

We seek exceptional candidates in broadly defined areas of computer science that enhance our research strengths in *areas that align with the following investment and growth priorities* of the Vanderbilt University School of Engineering:



### Tenure Track Assistant Professor of Computer Science

**Department:** Computer Science Department  
**Posting Number:** F025P  
**For full consideration applicants should apply by:** 10/18/2021

#### About Vassar College

Vassar is a highly selective, coeducational liberal arts college of about 2400 undergraduates (no graduate students) located in the beautiful and historic Hudson Valley seventy-five miles north of New York City. The city of Poughkeepsie benefits from rich cultural diversity and from convenient commuter rail access to New York City. Vassar faculty are committed teachers/scholars who bring research and creative discovery to life for students in classrooms, labs, and studios and in individually mentored projects. They teach broadly in the curricula of their departments, advise students, and serve on college-wide and departmental committees. The College maintains a generous leave policy, provides strong support for research, and encourages multidisciplinary approaches to teaching.

#### Position Introduction

The Department of Computer Science at Vassar College invites applications for a tenure-track position at the rank of Assistant Professor starting in the 2022-23 academic year.

#### AA Statement

Vassar College is an affirmative action and equal opportunity employer with a strong commitment to increasing the diversity of the campus community and the curriculum, and promoting an environment of equality, inclusion, and respect for difference. Candidates who can contribute to this goal through their teaching, research, advising, and other activities are encouraged to identify their strengths and experiences in this area. Individuals from groups whose underrepresentation in the American professoriate has been severe and longstanding are particularly encouraged to apply.

#### Position Description

We seek creative individuals who are able to teach undergraduate courses in the department, maintain an active research program, and engage undergraduates in their research. The ideal candidate would be able to develop our core courses in theory and algorithms, while also offering higher-level courses in their area of expertise. Candidates with expertise in Data Science are especially encouraged to apply. A PhD in Computer Science or related field is expected by the start of the Fall 2022 semester. A typical teaching load is one lab course and one non-lab course each semester. Vassar College has built a strong undergraduate program in Computer Science, with a rich history stretching back to the 1960s. The department maintains Linux laboratories for introductory and advanced instruction. For more information see <https://computerscience.vassar.edu/>.

#### How to Apply

To apply, please visit the posting for this position at <https://employment.vassar.edu/postings/2125>. Candidates should submit a letter of application, CV, a statement highlighting contributions to or future plans for promoting diversity and inclusion through teaching, research and other involvements (for information about writing a diversity statement <https://offices.vassar.edu/dean-of-the-faculty/positions/candidate-diversity-statement/>), graduate school transcript (unofficial copies accepted for initial application), statement of teaching experience and philosophy, research statement, and at least three letters of recommendation (at least one of which directly addresses teaching). For inquiries, email Luke Hunsberger, Chair, Computer Science Department, Vassar College, at [hunsberger@vassar.edu](mailto:hunsberger@vassar.edu). Complete applications received by October 18, 2021 will receive full consideration; there is no guarantee that applications received after this date will be considered.

#### To Apply

All applicants must apply online at: <https://apptrkr.com/2446229>

1. Cybersecurity and Resilience
2. Autonomous and Intelligent Human-AI-Machine Systems and Urban Environments
3. Computing and AI for Health, Medicine, and Surgery
4. Design of Next Generation Systems, Structures, Materials, and Manufacturing

Our priorities are designed to ensure the strongest positive impact on computer science and cross-disciplinary areas at all six academic departments in the School of Engineering and other colleges and schools across campus. The hiring initiative builds on these strengths and aspires to propel the Vanderbilt CS Department to one of the leading academic programs nationally and beyond. Successful candidates are expected to teach at the undergraduate and graduate levels and to develop and grow vigorous programs of externally funded research.

Ranked #14 nationally, Vanderbilt University is a private, internationally recognized research university located on 330 park-like acres 1.5 miles from downtown Nashville, Tennessee. Its 10 distinct schools share a single cohesive campus that values collaboration. The university enrolls over 13,500 undergraduate, graduate, and professional students, including 36% minority students and over 1,100 international students from 84 countries. The School of Engineering is on a strong upward trajectory in national and international stature and prominence, and has built infrastructure to support a significant expansion in faculty size. In the rankings of graduate engineering

programs by *U.S. News & World Report*, the school ranks in the top 20 private, research-extensive engineering schools. Five-year average T/Tk faculty funding in the formerly combined EECS department is above \$800k per year per person. Nearly all junior faculty members hired during the past 15 years have received prestigious young investigator awards, such as NSF CAREER and DARPA CSSG.

With a metro population of over two million people, Nashville's top industries by employment include trade, transportation and utilities; education and health services; professional and business services; government; and leisure and hospitality. Other industries include manufacturing, financial activities, construction, and information. Long known as a hub for health care and music, Nashville is a technology center with a considerable pool of health care, AI, and defense-related jobs available. In recent years, the city has experienced an influx of major office openings by some of the largest global tech companies and prime Silicon Valley startups.

Vanderbilt University has a strong institutional commitment to recruiting and retaining an academically and culturally diverse community of faculty. Minorities, women, individuals with disabilities, and members of other underrepresented groups, in particular, are encouraged to apply. Vanderbilt is an Equal Opportunity/Affirmative Action employer.

Vanderbilt University has made the safety of our students, faculty and staff, and our surrounding communities a top priority. As

part of that commitment, the University recently announced that students, faculty, and staff, are required to be vaccinated against COVID. As a prospective and/or a new employee at Vanderbilt, you will be required to comply with the University's vaccination protocol. Effective, August 1, 2021, proof of full vaccination or an approved accommodation will be required before the start of employment in order to work at Vanderbilt University.

**Applications should be submitted online at:** <http://apply.interfolio.com/94225>. **For more information, please visit our web site:** <http://vu.edu/destination-cs>. **Applications will be reviewed on a rolling basis beginning December 1, 2021 with interviews beginning January 1, 2022. For full consideration, application materials must be received by January 31, 2022.**

## VCU College of Engineering

### Computer Science Faculty Openings

The Department of Computer Science of the College of Engineering (CoEgr) at Virginia Commonwealth University (VCU) has an opening at the Assistant/Associate/Professor rank starting in the Fall 2022. As part of a premier research university situated in Virginia's capital city, VCU's computer science department has bachelor's, master's, and doctoral programs and collaborates closely with many VCU schools and departments including VCU's MCV campus. Additional information about the department's programs and faculty may be found at <http://www.egr.vcu.edu/departments/computer/>.



VCU is a Carnegie-classified very high research activity university, and is one of the top 100 universities in the U.S. in federal R&D expenditures. The CoEgr is in an extensive growth stage, significantly increasing the number of its faculty as student enrollment rises. Embarked on rapid growth, the computer science department currently has 25 tenure-track, tenured and term faculty members.

Applications are being sought for a tenure-track or tenured full-time faculty position at the Assistant, Associate, or Full Professor rank in the Computer Science Department at Virginia Commonwealth University. Candidates should be qualified for an appointment based on excellence in publication, funding potential; and graduate and undergraduate teaching. Well-qualified candidates in all areas of computer science will be considered. Of special interest are applicants who specialize in software engineering, particularly those with demonstrated evidence of collaborations with non-computer scientists, including computer engineers.

Required qualifications: Candidates must have a doctorate in Computer Science or related area, with relevant professional experience after receiving the Ph.D. Senior-level candidates must have a well-developed research portfolio with evidence of substantial external funding. The College of Engineering at VCU supports a diverse faculty, staff, and student environment. The candidate will demonstrate experience that shows their commitment to fostering such an environment. Candidates must desire to actively participate in creating and nurturing



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## VMware Systems Research Award: Recognizing Excellence in Computer Science Systems Research

This annual **\$125,000 USD** award is part of VMware's commitment to support computer science research and development worldwide. Submit nominations by **October 22, 2021**

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a highly collaborative, creative, innovative, and scholarly culture.

**Application Process:** Candidates should upload their application at [www.vcujobs.com](http://www.vcujobs.com) position F25400, as a single PDF file in the "other document" section that includes, in this order, a cover letter, curriculum vitae, research and teaching statements, and the names and e-mail addresses of four; reference letters will be requested by the search committee only for short-listed candidates. Only complete applications will be considered.

Review of applications will start on October 19, 2021, and will continue until filled. For additional information, please contact the Chair of the faculty search committee, Associate Professor Kostadin Damevski, email: [kdamevski@vcu.edu](mailto:kdamevski@vcu.edu) (preferred) or phone: (804) 827-3607.

Virginia Commonwealth University is an equal opportunity, affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.

## Washington State University

### *Multiple Tenured/Tenure-Track Faculty Positions in Computer Science and Engineering*

The School of Electrical Engineering and Computer Science at Washington State University in Pullman, WA invites applications for multiple permanent full-time tenured/tenure-track faculty positions in Computer Science at the assistant/associate/full professor level. Although all areas of computer science will be considered, research emphasis will be on the following areas: artificial

intelligence and machine learning (AI/ML), computer systems (e.g., operating and/or storage systems) and security, computer architecture with emphasis on emerging application workloads such as machine learning and edge AI. WSU is ranked Top-20 as per [CSRankings.org](https://www.csrankings.org) in several areas including electronic design automation and high-performance computing, and these positions are intended to build on these strengths. The new faculty will have numerous collaboration opportunities with the newly established NSF-USDA AI Institute for Agriculture, DoD Cybersecurity Institute, and PNNL-WSU Advanced Grid Institute.

The new faculty will join 37 existing tenure-track faculty members in EECS, which includes an NAE member, ten fellows of national professional organizations as well as fourteen CAREER/YIP recipients. Our graduate students have recently won prestigious awards including Microsoft Research fellowship, IBM Research fellowship, and NSF Computing Innovation Fellowship.

Please see this link for more information or to apply: [https://wsu.wd5.myworkdayjobs.com/en-US/WSU\\_Jobs/job/Washington-State-University/Assistant-Associate-Full-Professor\\_R-2402](https://wsu.wd5.myworkdayjobs.com/en-US/WSU_Jobs/job/Washington-State-University/Assistant-Associate-Full-Professor_R-2402)

For questions, please contact Jana Doppa at [jana.doppa@wsu.edu](mailto:jana.doppa@wsu.edu)

## Wesleyan University

### *Assistant Professor of Computer Science*

The Department of Mathematics and Computer Science at Wesleyan University invites applications for a tenure track assistant professorship in Computer Science to begin in Fall 2021. We encourage candidates in all areas of Computer Science to apply, and especially encourage candidates who can contribute to the diversity (broadly conceived) of the department. The teaching load is three courses per year.

We will begin reviewing applications on Dec. 1, 2021.

Applications must be submitted online at <https://academicjobsonline.org/ajob/jobs/19001> where the full job description may be found.

## West Virginia University

### *Assistant or Associate Professor*

WEST VIRGINIA UNIVERSITY, The Raymond J. Lane Department of Computer Science and Electrical Engineering of the Benjamin M. Statler College of Engineering and Mineral Resources (Morgantown, WV) invites applications for multiple tenure-track faculty positions at the rank of Assistant or Associate Professor in the area of computer engineering, computer science, and cybersecurity. Specialty areas of interest for this search include, but are not limited to cybersecurity, artificial intelligence, machine learning, software engineering, networking, computer

systems and architecture, theoretical computer science, and biometrics. Eligible candidates must hold an earned Doctorate degree in computer science, computer engineering, or a closely related field, at the time of appointment. The successful candidates must demonstrate the ability or potential to (1) develop and sustain an independent, internationally recognized and competitive externally-sponsored research program, (2) collaborate effectively within multidisciplinary teams of faculty and other researchers across WVU campus, other academic and government institutions, as well as the private sector, (3) teach courses at both the undergraduate and graduate levels, and (4) perform professional service activities within and outside the university. A notable record of peer-reviewed publications and other scholarly activities, effective communication skills, and evidence of potential to attract competitive research funding are required for this position. Candidates for the rank of Associate Professor must have an outstanding record of research, teaching, and service. For further information regarding this employment opportunity and how to apply, please see [www.jobs.wvu.edu](http://www.jobs.wvu.edu). Review of applications will begin October 15, 2021. West Virginia University is an Equal Opportunity/Affirmative Action Employer and the recipient of an NSF ADVANCE award for gender equity. The University values diversity among its faculty, staff and students, and invites applications from all qualified individuals, including minorities, females, individuals with disabilities, and veterans.

## Williams College

### *Assistant Professor and Open Rank Positions*

The Department of Computer Science at Williams College invites applications for two faculty positions beginning July 1, 2022. One is a tenure-track position at the rank of assistant professor with a three-year initial term. The other is an open rank position with a preference for more advanced candidates. That position will have terms commensurate with prior experience. We invite applications from all areas of computer science for both positions.

New faculty will join eleven current members of the department in supporting a thriving undergraduate computer science major at a top-tier liberal arts college. The Department of Computer Science offers a congenial working environment, an excellent and diverse student body, and state-of-the-art facilities supporting both teaching and research. Many opportunities exist for collaboration both within computer science and across disciplines. For more information about the department and faculty, please visit <http://www.cs.williams.edu>.

### **Qualifications**

Candidates should have a commitment to excellence in both teaching and research, and candidates should, by September 2022, possess a Ph.D. in computer science or a closely related discipline. Successful candidates will teach a total of three courses during the academic year, along with associated labs.

### **Application Instructions**

Applications should include a cover letter, curriculum vitae, teaching and research statements, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher. The application materials should also address how the candidate's teaching, scholarship, mentorship and/or community service might support Williams' commitment to diversity and inclusion. Application materials must be submitted electronically through Interfolio at <http://apply.interfolio.com/91229>. Materials may be addressed to Professor Stephen Freund, Chair, Department of Computer Science.

Completed applications received by November 15, 2021, will receive full

consideration, and review of applications will continue until the positions are filled. The search committee plans to conduct video conference interviews with semi-finalists by the end December, followed by on-campus interviews with finalists in January. Please direct all correspondence to [hiring@cs.williams.edu](mailto:hiring@cs.williams.edu). All offers of employment are contingent upon completion of a background check as described here: <https://faculty.williams.edu/prospective-faculty/background-check-policy/>.

### **Equal Employment Opportunity Statement**

Williams College is a liberal arts institution located in the Berkshire Hills of western Massachusetts. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (<http://www.williams.edu>).

Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.