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CRN At-A-Glance

CSGrad4US: New NSF Fellowship Opportunity for CS Bachelor's Degree Holders to Return for PhD

The NSF CSGrad4US Graduate Fellowship program aims to increase the number of diverse, domestic graduate students pursuing research and innovation careers in the CISE fields.

see page 2 for full article

CRA to Develop a Mentoring Program for NSF's CSGrad4US Initiative

The Computing Research Association's Education (CRA-E) and Widening Participation (CRA-WP) committees are working to develop a CSGrad4US Mentoring Program for recipients of the CSGrad4US Fellowship.

see page 3 for full article

2021 Board of Directors Election Slate; Petition Nominees Sought

CRA is pleased to announce the 2021 Election Committee's slate of nominees for the CRA Board. CRA also encourages nominations by petition, which are due by February 22.

see page 5 for full article

In This Issue

cra.org/crn

CSGrad4US: New NSF Fellowship Opportunity for CISE Bachelor's Degree Holders to Return for PhD

The National Science Foundation (NSF) Computer and Information Science and Engineering (CISE) Directorate has announced the new CSGrad4US Graduate Fellowship program that aims to increase the number of diverse, domestic graduate students pursuing research and innovation careers in the CISE fields. The new fellowship, which will provide 3-year fellowship opportunities for new Ph.D. students in the computing disciplines, was released in response to the increased demand for people with a Ph.D. in computer science (CS), the continued decrease of domestic students pursuing research and completing a Ph.D., and the overall small number of bachelor's degree recipients in CS pursuing graduate school. In particular, the percentage of domestic Ph.D. students in CS graduating has decreased from 69% in 1985 to 37% in 2018 [1].

Eligibility

CSGrad4US Fellowship applicants must meet the following eligibility criteria:

- Be a U.S. citizen, national, or permanent resident;
- Intend to apply for full-time enrollment in a research-based doctoral degree program in a CISE field (computer science, computer engineering, or information science) no later than Fall 2023;
- Have graduated with a bachelor's degree in a CISE field between July 1, 2016, and June 31, 2019;
- **Never** enrolled in a master's or doctoral degree-granting program for a CISE discipline at the time of the application (other than a professional master's degree program - **For the purposes of this funding opportunity, a professional master's program has no research component and is usually designed for full-time professionals**); and
- Have never previously accepted a NSF Graduate Research Fellowship.

NSF seeks candidates from a broad array of backgrounds and strongly encourages women, African Americans, Hispanics, American Indians, Alaska Natives, Native Hawaiians, Native Pacific Islanders, and persons with disabilities to apply.

Timeline

Applications for the CSGrad4US Graduate Fellowship are due April 13, 2021 by 5:00pm submitter local time. Please visit https://www.nsf.gov/cise/CSGrad4US/ for additional details and deadlines.

CRA's Education (CRA-E) and Widening Participation (CRA-WP) committees are working to develop a CSGrad4US Mentoring Program for Fellowship recipients.

[1] Addressing the National Need for Increasing the Domestic PhD Yield in Computer Science. Susanne Hambrusch, Lori Pollock, Ran Libeskind-Hadas, and Christine Alvarado, Quadrennial Paper, CRA, November 2020.

CRA to Develop a Mentoring Program for NSF's CSGrad4US Graduate Fellowship

In response to the National Science Foundation (NSF) Computer and Information Science and Engineering (CISE) Directorate's recently announced **CSGrad4US** Fellowship program, the Computing Research Association's **Education** (CRA-E) and **Widening Participation** (CRA-WP) committees are working to develop a **CSGrad4US Mentoring Program** for recipients of the CSGrad4US Fellowship. The goals of the mentoring program are (1) to guide returning students through the application process towards a successful CS Ph.D. admission and school selection and (2) mentor them through the transition to Ph.D. graduate study during the first year. The CSGrad4US Mentoring Program will include both a group mentoring component addressing general aspects of the graduate application process and an individual coaching component.

With an understanding of the myriad pathways into computing research, the mentoring program aims to support students with varying levels of research experience, including those with no prior research experience. The mentoring program will be led by Susanne Hambrusch (Purdue University), Lori Pollock (University of Delaware), Maria Gini (University of Minnesota) and Russ Joseph (Northwestern University).

Interested in serving as a mentor or coach?

More information and a sign-up opportunity will be posted on CRA, CRA-E and CRA-WP websites in the spring. Click **here** to subscribe to updates.

Biden Names Science Team; Eric Lander as Science Advisor; Elevates Position to Cabinet-level

By Peter Harsha, CRA Director of Government Affairs

President Joe Biden announced on January 15th his nomination of Dr. Eric Lander, biologist and former leader of the Human Genome Project, to lead the White House Office of Science and Technology Policy and serve as the Presidential Science Advisor. Biden also announced that he was designating the Presidential Science Advisor a cabinet level position for the first time in history, illustrating the importance the new administration will place on the guidance of science in policymaking. Also nominated as Deputy Director of OSTP was Dr. Alondra Nelson, who is the president of the Social Science Research Council and a distinguished scholar of science, technology, social inequality and race.

Biden also named two external Co-Chairs of the President's Council of Advisors on Science and Technology (PCAST). Dr. Frances H. Arnold and Dr. Maria Zuber will chair the committee tasked with reviewing elements of the nation's science enterprise and providing guidance on problems facing the nation. Dr. Arnold is an expert in protein engineering and the first woman to win the Nobel Prize in Chemistry. Dr. Zuber is an expert in geophysics and planetary science, the first woman to lead a NASA planetary mission, and a former chair of the National Science Board.

Biden's team will also include Kei Koizumi, who will serve OSTP's Chief of Staff, and Narda Jones, who will be OSTP's Legislative Affairs Director. Koizumi was a member of President Obama's OSTP staff, as well as an expert on science budgets for AAAS. He's also well known to CRA for his frequent appearances at our Leadership in Science Policy Institutes leading discussions on the Federal Budget process. Jones was the Senior Tech Policy Advisor and Counsel for the Senate Commerce, Science and Transportation Committee.

Biden's announcement, five days before his January 20th inauguration, is in marked contrast to the timing of former President Trump's naming of Kelvin Droegemeier to head OSTP, which came nearly two years into his term. Also, the naming of Lander as Presidential Science Advisor in addition to Director of OSTP, and the elevation of that position to the President's Cabinet, places Lander in a potentially much more influential policy role within the administration.

Lander and Nelson both require confirmation by the Senate before they can take their new positions. It's unclear how quickly the Senate will take up that process. CRA released a statement applauding the President on his announcement:

"The Computing Research Association commends President Biden for his announcement that the Presidential Science Advisor will be a member of the Cabinet for the first time in history. We applaud his commitment that "science will always be at the forefront" of his administration, and we look forward to working with the highly talented and qualified team of advisors he named. We are confident they will contribute a strong scientific voice to the myriad challenges facing our country."

2021 Board of Directors Election Slate

CRA
Computing Research Association

CRA is pleased to announce the 2021 Election Committee's slate of nominees for the CRA Board:

Academic (8 openings)

James Allan (University of Massachusetts Amherst)*

Janet Davis (Whitman College)

Stephanie Forrest (Arizona State University)*

Diana Franklin (University of Chicago)

Ayanna Howard (Georgia Institute of Technology)*

Ran Libeskind-Hadas (Harvey Mudd College)*

Andrew Myers (Cornell University)

Rachel Pottinger (University of British Columbia)*

Vivek Sarkar (Georgia Institute of Technology)*

Katie Siek (Indiana University)

Industry (2 openings)

Rachel Bellamy (IBM Research)

Chris Ramming (VMware)*

Eve Schooler (Intel)

*Denotes current board members.

Petition Nominees Sought for CRA Board of Directors

CRA also encourages nominations by petition. Petition nominations must be signed by the Designated Voting Representatives of at least five Constituent Member Organizations that are current in dues payment.

A complete nomination package for petition candidates must be submitted here no later than February 22, 2021. Separately, each of the five supporters of the petition must send an e-mail to elections@cra.org simply stating their support for the petition candidate to run for a seat on the CRA Board of Directors.

Questions may be sent to elections@cra.org.

Important dates and events:

- On **February 24, 2021**, final ballots will be distributed to all CRA department chairs and lab directors. Each will have one vote for each open slot on the board.
- On **March 17, 2021**, completed ballots must be returned to CRA.
- In **late-March**, the election results will be announced.

Students With Disabilities Report Differing Feelings of Belonging in Computing than Their Peers

CERP
Computing Research Association
Evaluation

By Evelyn Yarzebinski, CERP Senior Research Associate

	Students with disabilities compared to peers...
Bachelor's degree	- feel less welcome
Terminal master's degree	- feel less welcome
Doctoral degree	- feel less welcome - lower feeling of belonging

The feeling of belonging in one's field is connected to one's future academic success and persistence. [e.g. 1] CERP analyzed the results of the Fall 2019 Data Buddies Survey (DBS) for undergraduate and graduate students to understand how students with disabilities report feelings of belonging.

CERP asked participants to rate their level of agreement with the following statements: "Computing is a big part of who I am", "I feel welcome in computing", and "I feel like I belong in computing." CERP analyzed these responses via Independent Samples *t*-tests, grouping students by whether they indicated "yes" or "no" to the question: "Do you have any type of disability?" The analyses included only those students who provided answers to each of the above statements, and further grouped students by whether the students were currently earning an undergraduate (N = 8,333), terminal master's (N = 1,278), or doctoral degree (N = 1,158).

Results indicate mixed experiences. On one hand, *t*-tests comparing the responses for "Computing is a big part of who I am" were all non-significant for 1) undergraduate students with and without disabilities, 2) terminal master's students with and without disabilities, and 3) doctoral students with and without disabilities. These results indicate that students in each of these degree levels, regardless of disability status, have generally equivalent levels of feeling that computing is a big part of who they are. Given those equivalent feelings, it is troubling to uncover that undergraduates with disabilities, terminal master's students with disabilities, and doctoral students with disabilities each reported a significantly lower sense of feeling welcomed in computing than their peers. Furthermore, doctoral students with disabilities additionally reported significantly lower feelings of belonging in computing than their peers. See the Notes section for more details.

While these results highlight some disparities in experiences of students with disabilities, there is also a need for careful follow-up analyses. While this first level of analysis used disability status as a binary grouping variable, disabilities range widely. Future work should investigate whether a sense of belonging differs for students with different types of disabilities (e.g. those with mobility-related disabilities versus those with health-related disabilities).

Reference:

1. Freeman, T. M., Anderman, L. H., & Jensen, J. M. (2007). Sense of belonging in college freshmen at the classroom and campus levels. The Journal of Experimental Education, 75(3), 203-220.

Notes:

The survey data analyzed for this infographic were collected by Center for Evaluating the Research Pipeline via The Data Buddies Project in 2019. Each of the items analyzed in this analysis used a 1-5 Likert scale, with the choices of "Strongly disagree", "Somewhat disagree", "Neither agree nor disagree", "Somewhat agree", and "Strongly Agree".

Significant Independent Samples *t*-tests with effect sizes (Cohen's *d*) over 0.15:

- Doctoral students with disabilities (M = 3.57; SD = 1.18) report lower feelings of belonging in computing than doctoral students without disabilities (M = 3.91, SD = 1.01); $t(113) = -2.78$, $p < 0.1$; Cohen's $d = 0.31$.
- Undergraduate students with disabilities (M = 3.49, SD = 1.08) report lower feelings of welcome in computing than undergraduate students without disabilities (M = 3.66, SD = 0.98); $t(998) = -4.33$, $p < 0.001$, Cohen's $d = 0.16$.
- Terminal master's students with disabilities (M = 3.61, SD = 1.03) report lower feelings of welcome in computing than terminal master's students without disabilities (M = 3.93, SD = 0.94); $t(61) = -2.24$, $p < 0.05$, Cohen's $d = 0.32$
- Doctoral students with disabilities (M = 3.51, SD = 1.10) report lower feelings of welcome in computing than doctoral students without disabilities (M = 3.81, SD = 0.95); $t(114) = -2.68$, $p < 0.01$, Cohen's $d = 0.30$.

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.

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I2O PostDoc Fellowship: Deadline March 1

CCC
Computing Community Consortium
Catalyst

By CCC Staff

The Defense Advanced Research Projects Agency (DARPA) is broadening its commitment to young scientists through a new Information Innovation Office (I2O) PostDoc Fellowship Program focused on postdoctoral researchers in the field of computer science with grants sized to support each fellow for up to two years.

Participation is open to individuals who are U.S. Citizens or U.S. Permanent Residents (1) who received a PhD degree no earlier than June 2019; or (2) will receive a PhD prior to the start date of this award; and (3) will be appointed to a postdoctoral position at a U.S. institution of higher education during the 2021-22 academic year.

This I2O RA is specifically focused on supporting research by computer science postdoctoral fellows to drive innovation in the following topic areas:

- Topic 1: Computational Theory of Insecurity
- Topic 2: Cross-Disciplinary Knowledge Discovery
- Topic 3: Ego-Centric Emotion Recognition
- Topic 4: Multi-Scale Models of Social Dynamics
- Topic 5: Identifying Insecurity in Software of Unknown Provenance
- Topic 6: Calming Advisor to Reduce Conflict Online
- Topic 7: Rethinking Design through Imprecise Specifications
- Topic 8: Software Source of Truth
- Topic 9: Evaluating Generative Common Sense Question Answering

I2O provides this funding opportunity to address challenges to the career planning processes of PhD graduates and the faculty hiring process of U.S. institutions of higher education that are emerging due to the pandemic. Because the pandemic has disrupted research and teaching at institutions of higher education, the employment prospects of the current cohort of PhD graduates has been severely adversely impacted. This RA is intended to mitigate these adverse impacts and enhance the health of the U.S. computer science research workforce moving forward.

March 1st is the deadline for the last round of Phase 1 submissions. If you are interested, please see this website to learn more about the various topic areas and the postdoc guidelines.

CCC Council Member Melanie Mitchell on if AI can Exist in Medicine Without Human Oversight

CCC
Computing Community Consortium
Catalyst

By CCC Staff

Melanie Mitchell, Computing Community Consortium (CCC) Council member and Professor at the Santa Fe Institute and Portland State University was recently interviewed on the Medscape podcast, Medicine and the Machine in an episode titled 'Can AI Exist in Medicine Without Human Oversight?. The podcast, led by Medscape editor-in-chief Eric Topol and Abraham Verghese from Stanford, explores critical questions and discussions on artificial intelligence's (AI) impact on modern medicine.

While it was acknowledged that AI has made great strides in the past decade on accomplishing narrow tasks, the episode highlights that the technology still lacks the ability to work autonomously in the field of medicine. Making this a possibility would require 'transfer learning', a term coined in the profession to describe technology that would enable AI systems to apply skills and knowledge across domains, beyond one particular task. Moreover, the deep learning techniques that have been used to train machines require large amounts of annotated data, something Topol points out is seriously lacking in the health industry. Along with the lack of data, other roadblocks in AI's application to the field of medicine are ethical implications and the replication crisis. These realities prevent technology from currently performing without human supervision.

A large part of the discussion revolved around the ethical implications of bias in these types of systems. One example was brought up from an Optum study, published in Science in October 2019.

> *"There was discrimination against Blacks because they weren't using as many medical resources as Whites. [Black persons were getting low risk scores for many chronic conditions not because their risk was lower but because the Optum algorithm was basing its findings, in large part, on bills and insurance claims.]"*

It is a major research challenge at the moment to eliminate bias in AI systems. This is a particularly difficult problem due to the lack of transparency in these systems. Bias can be introduced through the datasets the technology is trained with or baked in through any bias that the programmer has. In order to eliminate the bias, you not only have to be able to identify it, but understand where the bias is coming from and how the technology came to the decision that it did. Even if that is accomplished there has to be a way to test and certify these types of machines as trustworthy and unbiased.

In this way, AI is not ready to act autonomously. But as Verghese points out there are some instances in medicine where a machine's lack of human intuition and emotions are beneficial, such as predicting a patient's mortality rate. AI machines are often more accurate in predicting mortality timing and rates because they can look at the patient objectively, whereas a doctor might factor in the patient's will to live and their intrinsic hope for the patient to survive.

Mitchell points out humans and machines both have bias. If they work together they can be better than either entity acting alone. Despite not being at the point of acting autonomously, there has been progress in AI beneficially impacting the medical field over the past decade such as natural language processing systems able to transcribe medical records and an autonomous machine able to diagnose diabetic retinopathy. Despite the roadblocks, Mitchell has high hopes for the future of AI in medicine over the next 10 years.

> *"I think we'll get a lot more AI as assistance, to help physicians broaden their ability to care for people, and I'm quite optimistic about that." - Melanie Mitchell*

Mitchell has recently joined the newly created CCC task force on Responsible Computing. Similar to the dilemmas discussed in the podcast, the task force focuses on issues concerning privacy, ethics and overall responsible practices in computing. Check out the full interview here.

CCC Council Member Maria Gini Featured in University of Minnesota Article: Designing the Next Generation of Robots

CCC
Computing Community Consortium
Catalyst

By CCC Staff

Contributions to this post were provided by CCC Council member Maria Gini.

Maria Gini

Computing Community Consortium (CCC) Council Member and Distinguished Professor of the College of Science and Engineering at the University of Minnesota, Maria Gini was recently featured in an article highlighting the work of U of M's Minnesota Robotics Institute (MnRI).

The Minnesota Robotics Institute is a unit of U of M's College of Science and Engineering Department that brings together students and researchers from all over the world to pursue an education in robotics. The article highlighted a couple of ongoing and past projects that have come out of the institute including a robot used to detect autism in young children, underwater autonomous vehicles to identify and locate invasive weeds affecting Minnesota wildlife, and a prototype bot that can be used during the pandemic to assist healthcare workers by taking patients' temperatures with a thermal camera.

One question in particular that Gini seeks to answer is whether or not robots can achieve human-level skills in comprehending and producing language. The key to answering this question will be understanding robots' learning processes through studying their organization and memory structures in the context of speech. Although this project is still in the early stages, Gini already produced a prototype 'chatbot' for radio stations, that will answer listeners' questions such as identifying the song that just played. In addition, she just finished a two-year project designing a robot that will store information from its conversations and respond or remind speakers of tasks they've previously mentioned.

Gini is a member of the newly created CCC Technology for a Distributed, Connected Life Task Force, which has many of the similar goals of improving human life through technology. She is also a recipient of the CRA A. Nico Habermann Award. This is an exciting time for research in robotics, with tons of opportunities and resources for implementation. We look forward to seeing what the people of MnRI will come up with next. See the full article here.

Expanding the Pipeline - Minding the Gaps in the CS Pipeline: The MSCS Degree

CRA-WP
Computing Research Association
Widening Participation

By Jan Cuny, Northeastern University, et al.

Education presents a complex and confusing landscape. The traditional view of a CS education pipeline flowing from elementary through secondary, postsecondary, and graduate education is an oversimplification – one that may hinder our efforts to diversify computing. This simplification encourages a focus on educational efforts based on retention across stages and the traditional transitions between them, ignoring the fact that successful students may enter or re-enter CS education through a variety of nonstandard onramps.

One area for nontraditional onramps that remains largely unexplored is the post-graduate domain. Having completed college, most graduates have little or no access to high-quality education and training. Yet with decades of employment ahead of them, *today's post-graduate population could be a valuable source of tech talent and diversity*. Post-grad onramps could be used by college graduates with CS-related degrees in upskilling, and by college graduates from other disciplines in switching into tech or adding CS competencies to their existing skills. Current employees would have avenues for further advancement, and displaced or underemployed workers avenues for reentering the job market. Those coming from other disciplines might well offer greater diversity in terms of ethnicity, race, gender, disability, and perspectives, creating a CS-enabled workforce that is more expansive, more inclusive, more productive, and more innovative.

A variety of programs could be used to close the post-grad education gap. B2B certificate programs could build tech resumes, focusing on current, essential topics such as cybersecurity, machine learning, and AI. Affordable BSCS degree completion programs for those holding Associate Degrees in CS-related fields (especially if compatible with holding a full-time job) could provide significant upskilling and bring additional diversity to an expanding tech workforce. MSCS programs that accommodate those with undergraduate degrees in fields other than computing could expand and diversify the tech workforce. Mentored research experiences in academia or industry might encourage BS and MS students to continue to a Ph.D. and a career in research. Pre-Ph.D. programs could help students with computing-related degrees burnish their resume in order to gain admission to competitive Ph.D. programs at top departments, increasing their access to academic careers.

A variety of programs or pilot programs now exist in each of these spaces. But current efforts are too small and too scattered, and are unlikely to provide the scale needed to solve national CS shortages or increase diversity. We do, however, have the potential to build upon successful existing efforts with particular attention to onramps that focus on increasing diversity.

One post-grad onramp that is already established – and is in fact beginning to scale – is MSCS programs aimed at those who did not major in CS for their undergraduate degrees. A successful example is the Align Program at Northeastern University [1], designed specifically for students entering with undergraduate degrees in something *other than* the computing-related disciplines; even prior experience with coding is not required.

Northeastern's Align program. Align students start with an intensive, two-semester Bridge curriculum that brings them up to speed, preparing them to take Master's level CS courses right along with the Northeastern direct-entry MS students who were CS majors as undergraduates. It differs from traditional Post Baccalaureate programs because it is not a full undergraduate curriculum. Instead, it covers the core learning outcomes of Northeastern University's BS in CS as well as the Core-Tier 1 topics and learning outcomes in the ACM/IEEE-Computer Society Guidelines for Undergraduate Curricula in CS. The Bridge develops students' skills in

[1] Carla Brodley, *e.t al.* "An MS in CS for non-CS Majors: Moving to Increase Diversity of Thought and Demographics in CS," SIGCSE '20 Proceedings of the 51st ACM Technical Symposium on Computer Science Education, February 2020, pp 1248–1254

Expanding the Pipeline *(continued)*

software development, theory and systems as well as their ability to work collaboratively. A co-curricular seminar series exposes students to potential areas of specialization, showing them the breadth of computer applications and careers. In keeping with Northeastern's focus on experiential learning, "Aligners" also have the opportunity to do an internship or co-op in industry.

The Align staff provides specialized marketing and recruiting to reach prospective students who represent a diversity of background, socioeconomics, race, ethnicity, and gender. They also provide students with an inclusive environment and a range of academic support, career advising and programming that ensures their success:

- Math Prep: Align students who are concerned about their math background or recency can take a free, two-week refresher Math Prep course immediately before beginning the Bridge. Pointers to free online math materials are available throughout the Bridge in a just-in-time manner.
- TAs and tutoring: TAs are deployed in a 10:1 ratio instead of the 25:1 ratio used in most Northeastern classes. This allows Aligners to more easily get support from and build relationships with more senior students. Students needing additional support are provided with individual and/or small group tutors.
- Mentorship: In partnership with a company called the Mentor Collective, Northeastern provides near-peer, 1-1 mentoring for students during the Bridge and offers numerous mentorship programs each year in partnership with industry.
- Experiential Learning: Students are encouraged and trained to pursue co-ops or internships or research projects, or to engage in project-based learning.
- Belonging: TAs are trained on creating inclusive environments. All students are invited to participate in an Identity Series which focuses on the intersection of identity and CS centering BIPOC voices. A student-led club, called Code 4 the Culture, builds community among Black and LatinX students.

Once the Bridge is completed, students continue directly into the MS program. Direct admission acknowledges that students' previous academic backgrounds and degrees are important contributors to their professional development and increase the overall diversity of thought in our field.

The Align program has been very successful and is in high demand. From its start in Seattle in 2013, the program is now offered now at six sites in Northeastern's Global Network of campuses: Boston MA, Seattle WA, Silicon Valley CA, San Francisco CA, Portland ME, and Vancouver BC. In 2013 the program had just 11 students; In fall 2020, despite the pandemic, it had 1,187 enrolled students coming from 120 different undergraduate majors. Though still evolving, Align's diversity numbers are good: 52% of students are female and 15% of the domestic students are from the other underrepresented groups in computing. Retention is also good: from Semester 1 to Semester 2 retention averages around 92%; from Semester 2 to the MS it averages 90%; and once Aligners have started the MS portion of the program, nearly 100% of them continue on to graduation. Finally, in one point-in-time survey, Align students outperformed Northeastern's direct admit MS students, getting a higher percentage of grades in both the range [4.0, 3.9) and the range [3.0, 3.8).

MSCS as the new MBA? Northeastern began this work with the premise that CS skills are essential to all sectors of our economy – today every company is a tech company – and that the MSCS degree is broadly needed. *Much like the MBA, the MSCS could become a degree open to students from a wide range of disciplines that prepares them for a wide range of careers.* The MSCS degree, however, will not achieve MBA status through the efforts of any single institution. A much larger community is needed. It is our belief that, like the MBA, MSCS degrees should be made nationally accessible to graduates from any discipline: a professional degree that people can access, succeed in, and leverage along any career path, regardless of prior experience or knowledge in computing.

Expanding the Pipeline *(continued)*

MS Pathways to Computing Consortium. To pioneer that larger community, twelve institutions – Clemson University, Colorado School of Mines, Columbia University, DePaul University, George Mason University, Georgia Institute of Technology, Tufts University, University of California Riverside, University of Illinois Urbana-Champaign, University of Maryland Baltimore County, University of North Texas and the University of South Florida – have joined Northeastern in forming the MS Pathways to Computing Consortium.

The Consortium is a networked community of colleges and universities working collaboratively to expand pathways into computing with MSCS degrees for post grads who were not CS majors, with a particular focus on women, people of color, and first-generation students. The programs that member institutions run differ in a number of ways. They differ, for example, in whether they have a specifically designed "bridge" program or simply a required sequence of undergraduate CS courses that must be completed before entering the MS, and in whether the MS program is seen primarily as a professional MS with most graduates going on to industry jobs or as a stepping stone to a Ph.D. program. They also differ in the extent to which the program is primarily online or face-to-face. Some of the programs encourage students to have experiential internships or academic research experiences as part of their programs. Some offer certificates for completing the bridge part of the program, while others package bridge and MS courses together as a single program.

Despite their differences, members of the Consortium work together to solve common problems and learn from each other. They are developing a common data framework to enable the measurement of joint progress. They are building a common set of resources and a shared marketing campaign with strategies for reaching students from underrepresented groups. Consortium members are jointly applying for grants to provide scholarships and a virtual community for minoritized students as well as grants that would allow more MS students to have opportunities for research experiences with the expectation that some will continue on to Ph.D.s.

Consortium members are developing common goals with specific, measurable outcomes, and they are collaborating to develop best practices in achieving those goals, aiming not just to understand "whether some practice works," but to understand "factors needed to make it work reliably and across a range of universities and colleges." The Consortium will be a source of innovation, providing social connections to accelerate testing and the understanding of new approaches to recruitment, curriculum, teaching, and student support services. This will allow institutions to choose among innovations and best practices based on data, adapt them appropriately for their local environment, and identify where further innovation is needed. It is our hope that these joint efforts will speed the implementation of additional MS in computing programs across the country.

Scaling this onramp nationally. Institutions interested in starting their own MSCS programs for non-CS majors or joining the Consortium should contact the authors.

Next steps. MSCS programs offer just some of the onramps in the post-grad space. Many more are possible. The CISE Directorate at the National Science Foundation, for example, has just announced the CSGrad4US Fellowships that provide a pathway for CS bachelor's degree holders who have been in the workforce for 2-5 years to return to academia and pursue research-based doctoral degrees. Applicants must address how they expect to contribute to the diversity of the field in their applications. The Fellows will have a year-long preparation program that includes mentoring, community building as well as assistance in identifying a graduate program, finding a research mentor and applying to graduate programs. Once accepted in to a CISE-related graduate program, they will receive a Fellowship covering a stipend and part of their tuition and school related expenses for up to 3 years. CRA's Education (CRA-E) and Widening Participation (CRA-WP) committees are working to develop a CSGrad4US Mentoring Program for recipients of the CSGrad4US Fellowship.

There may be many other creative ways of providing onramps for post grads, both with and without CS degrees. As a community we should encourage piloting and scaling activities in this space, thereby creating a larger, richer CS community more diverse in gender, race, ethnicity and thought.

About the Authors

Jan Cuny, Consultant on DEI issues for both Northeastern University and the University of Washington, formerly the Global Director of the Align Program, Northeastern University.

Carla Brodley, Dean of Khoury College of Computer Science and Executive Director for the Center for Inclusive Computing.

Andrea Danyluk, Professor of Computer Science at Williams College, currently Co-Chair of CRA-WP and a Distinguished Member of ACM for contributions to computing education.

Ian Gorton, Professor of the Practice, Northeastern University and Director of Graduate programs for the Khoury College of Computing Sciences in Seattle.

Catherine Gill, Managing Director of the Center for Inclusive Computing at Northeastern University, previously part of the leadership team for the Align MSCS at Khoury College of Computer Sciences.

Jodi Tims, Executive Director of Khoury College in the Global Network and currently Chair of the Association for Computing Machinery's committee on Women (ACM-W).

Call for Nominations: CRA-WP Early Career Awards

CRA-WP
Computing Research Association
Widening Participation

Nominations Due March 31: CRA-WP Skip Ellis Early Career Award

Nominations for the Skip Ellis Early Career Award are now open!

CRA-WP is excited to launch the second cycle of its newest award, the Skip Ellis Early Career Award. The award recognizes outstanding scientists and engineers in computing who identify as a member of a group underrepresented in computing (African-American, Latinx, Native American/First Peoples, and/or people with disabilities).

Detailed information about the award and nomination submission can be found on the Skip Ellis Early Career Award webpage.

Nominations Due March 31: CRA-WP Anita Borg Early Career Award (BECA)

Nominations for the Anita Borg Early Career Award (BECA) are now open!

The award honors the late Anita Borg, who was an early member of CRA-WP and is inspired by her commitment to increasing the participation of women in computing research.

Detailed information about the award and nomination submission can be found on the Anita Borg Early Career Award (BECA) website.

Changing the Face of Computer Science Video Campaign

Although computer science has become foundational to every industry and field of study, representation and participation in computer science is still far from balanced.

CRA is helping to launch a video campaign to change the face of computer science. Please help us spread this message as broadly as possible to students.

Only 3% of Black students learn computer science in high school or university. Please watch and share this video broadly. Inspire or encourage a student to try computer science, and let them know they belong. Together we can change the face of computer science.

The organizations partnering to launch this video are nonprofits led by people of color, all of whom have spent years on broadening participation and access, and we are delighted to be supporting their work.

"Please help us spread this message as broadly as possible to students."

Professional Opportunities

Aalborg University

Assistant Professor (with possibility of Tenure Track) and Associate Professor

Department of Computer Science is highly regarded in Denmark because of our leading research, education, and collaboration. Our research is recognised internationally and nationally to be at the highest level of excellence according to community standards, prioritizing quality over quantity. We are acknowledged for close collaboration with industry and for applying research to create impact and value for society, in particular within the area of sustainable development.

Our educations are recognized for producing highly skilled graduates.

We welcome strong applications in the areas of Computer Science, Artificial Intelligence/Machine Learning, Security, Web Data & Knowledge Engineering, Systems Development and Networks.

Application deadline
10 February

Read more
Associate Professor in Computer Science (*https://www.stillinger.aau.dk/vis-stilling/?vacancy=1136728*)

Assistant Professor in Computer Science (with possiblity of Tenure Track) (*https://www.stillinger.aau.dk/vis-stilling/?vacancy=1136722*)

Argonne National Laboratory

Postdoctoral Appointee in Quantum Information Science

Argonne National Laboratory seeks multiple postdoctoral appointees to participate in projects that model the behavior of multiqubit systems, develop quantum algorithms for materials simulations, perform quantum network simulations, and develop quantum network protocols. Postdoctoral appointees will have a unique opportunity to become part of *Q-NEXT*, a National Quantum Information Science Research Center. We seek exceptional candidates with a recent or expected Ph.D. in a computational or engineering discipline or in physics with experience in one or more of the following:

- Simulation of open quantum systems, noise characterization, or quantum error correction;
- Development of variational quantum algorithms with applications in quantum chemistry;
- Simulations of quantum networks or development of quantum network protocols;
- Optimization of quantum algorithms and quantum programming (e.g., using Qiskit);
- High-performance computing or scientific computing;
- Large-scale code development in C, C++, Python, or Go.

Application link: Please apply at *https://bit.ly/34beW6M*. Contact Martin Suchara (*msuchara@anl.gov*) with any questions.

Arizona State University

Assistant/Associate/Full Professor in Artificial Intelligence

The Fulton Schools of Engineering at Arizona State University (ASU) and the School of Computing, Informatics, and Decision Systems Engineering (CIDSE) seeks applicants for a tenure-track faculty position in Artificial Intelligence (AI), Machine Learning and Natural Language Processing (NLP). All aspects of AI and Machine Learning will be of interest including knowledge representation, deep learning, adversarial learning, sparse learning, optimization methods, and reinforcement learning. Areas of NLP will include question answering, natural language understanding, connecting language and machine perception, dialog systems, document understanding, natural language generation, and machine translation. The originality and potential impact of each candidate's work are higher priorities than the specific area of research.

The AI and Machine Learning groups in the School of Computing, Informatics, and Decision Systems Engineering include faculty working on a variety of topics including natural language processing, computer vision, automated planning, knowledge representation and machine learning with applications to robotics, security and intelligent tutors. Extensive collaborations exist across the university,

including School of Human Evolution and Social Change (*https://shesc.asu.edu/*), Department of Biomedical Informatics (*https://health.asu.edu/department-biomedical-informatics*), the Biodesign Institute (*https://biodesign.asu.edu/*), School of Criminology and Criminal Justice (*https://ccj.asu.edu/programs/bs/criminology-and-criminal-justice*) and the Center for the Study of Religion and Conflict (*https://csrc.asu.edu/*). The current opening is intended to broaden this expertise and expand collaborations.

Required qualifications: Earned Ph.D., or equivalent, in Computer Science, or a closely related field by the time of appointment. Required qualifications also include demonstrated evidence of research capability and commitment to teaching excellence. Desired qualifications: Record of acquiring external funding and publication in top-tier journals/conferences as appropriate to the candidate's rank, and a commitment to participating on and leading transdisciplinary teams addressing problems of high societal impact.

We seek applicants who will contribute to our programs and expand collaborations with existing faculty at ASU. Located in Tempe with easy access to the outdoors and urban amenities, ASU's vibrant and innovative approaches to research and teaching are charting new paths in education and research in the public interest. Faculty members are expected to develop an internationally recognized and externally funded research program, develop and teach graduate and undergraduate courses, advise and mentor graduate and undergraduate students, and undertake service activities. ASU strongly encourages transdisciplinary collaboration and use-inspired, socially relevant research. Successful candidates will be encouraged to expand expertise and collaborations in these areas. Although the tenure home may be in any of the Ira A. Fulton Schools of Engineering, the School of Computing, Informatics, and Decision Systems Engineering is currently the most involved in the interest areas of this research.

Appointments will be at the Assistant, Associate, or Full Professor rank commensurate with the candidate's experience and accomplishments, beginning August 2021.

Application deadline is January 10, 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 research interests
- Statement describing teaching interests
- Diversity statement*
- Contact information for at least three references

*The ASU Charter states, "ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves." The diversity statement provides applicants an opportunity to demonstrate their past and current activities in promoting diversity, equity, and inclusion and how future activities will align with upholding the ASU Charter.

For further information or questions about this position please contact Professor Chitta Baral at (*chitta@asu.edu*)

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. See ASU's full non--discrimination statement (ACD 401) at *https://www.asu.edu/aad/manuals/acd/acd401.html* and the Title IX statement at *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.

Arizona State University

Professor (All Ranks) in Distributed Systems and Blockchain Security

The Ira A. Fulton Schools of Engineering at Arizona State University (ASU) seek applicants for a tenure-track/tenured faculty position in the intersection of Distributed Systems / Blockchain / Security in the School of Computing, Informatics, and Decision Systems Engineering (CIDSE). Areas of interest include, but are not limited to: the robustness, security, and resilience of distributed systems; secure distributed consensus algorithms; internet-scale distributed security; distributed cybersecurity approaches; theory and applications of blockchains and cryptography; secure distributed learning; game-theoretic approaches to cybersecurity; secure multiparty computation, data management, and cryptography; the distributed Internet of Things; and other emerging areas covering various intersections of distributed systems, blockchain, and cybersecurity.

Required qualifications: Earned doctorate or equivalent in Computer Science, Computer Engineering, Electrical Engineering, Cybersecurity, or a closely related field by the time of appointment. Demonstrated evidence of excellence in research and teaching as appropriate to the candidate's rank. Desired qualifications: Commitment to teaching at both the graduate and undergraduate levels, strong record of publications in top-tier venues and the potential for establishing an externally funded research program, and a strong commitment to bringing about real-world impact as a result of the candidate's research.

We seek applicants who will contribute to our programs and expand collaborations with existing faculty at ASU. Located in Tempe with easy access to the outdoors and urban amenities, ASU's vibrant and innovative approaches to research and teaching are charting new paths in education and research in the public interest. Faculty members are expected to develop an internationally recognized and externally funded research program, develop and teach graduate and undergraduate courses, advise and mentor graduate and undergraduate students, and undertake service activities. ASU strongly encourages transdisciplinary collaboration and use-inspired, socially relevant research. Successful candidates will be encouraged to expand expertise and collaborations in these areas. The tenure home may be in any of the Ira A. Fulton Schools of Engineering.

Appointments will be at the Assistant, Associate, or Full Professor rank commensurate with the candidate's experience and accomplishments, beginning August 2021.

Application deadline is January 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 research interests
- Statement describing teaching interests
- Diversity statement*
- Contact information for at least three references

*Candidates are required to submit a Diversity Statement, outlining their experience and commitment to enhancing diversity and access to education, and working broadly with diverse communities.

For further information or questions about this position please contact Professor Yan Shoshitaishvili at (*yans@asu.edu*)

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/ Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. See ASU's full non-discrimination statement (ACD 401) at *https://www.asu.edu/aad/manuals/acd/acd401.html* and the Title IX statement at *https://www.asu.edu/titleIX/*

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hard copy of the report by contacting the ASU Police Department at 480-965-3456.

Arizona State University

Professor (All Ranks) in Bio-inspired Computation

The Ira A. Fulton Schools of Engineering (FSE) at Arizona State University (ASU) and the Biodesign Center for Biocomputation, Security and Society (CBSS) invite applications for a tenured or tenure-track faculty position. We are particularly interested in tenure-track applicants but will consider exceptionally strong senior candidates. The tenure home may be in any of the Fulton Schools of Engineering, although the School of Computing, Informatics and Decision Systems Engineering is currently the most involved in the interest areas of the search. The position is joint between FSE and the Biodesign Center for Biocomputation, Security and Society (CBSS). CBSS focuses on projects that require tight integration of biological principles and computational abstractions, emphasizing defenses against malicious behavior in natural and artificial complex systems. Areas of interest include: adaptive systems, evolutionary computation, bio-inspired AI and algorithms, computational modeling (especially immunology, evolution, and cancer), cybersecurity, and intelligent systems. Originality, fit with the Center, strong interdisciplinarity, and the potential impact of the candidate are higher priorities than specific research area.

We seek applicants who will contribute to our programs and expand collaborations between the Biodesign Institute and FSE. Located in Tempe with easy access to the outdoors and urban amenities, ASU's vibrant and innovative approaches to research and teaching are charting new paths in education and research in the public interest. Faculty members are expected to develop an internationally recognized and externally funded research program, adopt innovative educational practices in graduate and undergraduate education, develop and teach graduate and undergraduate courses, advise and mentor graduate and undergraduate students, and undertake service activities within the university, in the professional community and at a national level.

Required qualifications include an earned doctorate in computer science, engineering, biological sciences, or related field and demonstrated research and teaching excellence appropriate to the candidate's rank. Desired qualifications include demonstrated commitment to interdisciplinary research and teaching, history of extramural funding, and record of significant publications.

Appointments are expected to begin August 2021. Teaching responsibilities will be to the School to which the candidate is appointed, and the research program will be closely tied to Biodesign CBSS. Applications should clearly address the candidate's teaching qualifications and experience relevant to a particular FSE program.

Application deadline is January 21, 2021. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may 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 research interests
- Diversity statement*
- Contact information for four references

*Candidates are required to submit a Diversity Statement (one page maximum) which outlines their experience and commitment to enhancing diversity and access to education and working broadly with diverse communities.

For further information or questions about the search please contact Professor Stephanie Forrest (***steph@asu.edu***).

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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.

Arizona State University

Clinical Assistant Professor of Data Science

Arizona State University is accepting applications for a Clinical Assistant Professor of Data Science.

For job information and to apply, please visit *https://www.mathjobs.org/jobs/list/16994*

Arizona State University

Professor (All Ranks) in High Performance Machine Learning and Big Data (Job #16536)

The Ira A. Fulton Schools of Engineering at Arizona State University (ASU) seeks applicants for a tenure-track/tenured faculty position in "**High Performance Machine Learning and Big Data**" in the School of Computing, Informatics, and Decision Systems Engineering (CIDSE). This search will target scientists and engineers with research into high performance big data systems for acquiring, processing, and analyzing real-time, large-scale, and multi-modal data and for supporting machine learning to convert data into actionable information and knowledge. Areas of interest include applied and theoretical innovations in high performance, real-time, and distributed data management, analysis, and machine learning, especially innovations leveraging cloud-based deployments and modern hardware. Candidates with big data application interest in one or more of our key research thrust areas of Health, IoT, Space, Cybersecurity, and Sustainability are particularly encouraged to apply.

CIDSE currently houses several ASU Centers – including Center for Assured and Scalable Engineering (CASCADE) *https://cascade.asu.edu/*, Center for Accelerating Operational Efficiency (CAOE) *https://caoe.asu.edu/*, Center for Cybersecurity and Digital Forensics (CDF) *https://globalsecurity.asu.edu/center-cybersecurity-and-digital-forensics*, Center for Embedded Systems (CES) *https://ces.asu.edu/* and Center for Biocomputing, Security and Society (CBSS) *https://biodesign.asu.edu/biocomputing-security-and-society* – and have a large number of faculty working on a variety of relevant topics that include data management, distributed algorithms and systems, cloud and high performance computing, network algorithms and optimization, machine learning, and AI. The current openings are intended to broaden and strengthen this expertise, which is crucial to university initiatives and velocity.

Required qualifications: Earned doctorate or equivalent in computer science, computer engineering, or a closely related field by the time of appointment and demonstrated evidence of excellence in research and teaching as appropriate to the candidate's rank.

Desired qualifications: Commitment to teaching at both the graduate and the undergraduate levels, evidence of commitment to a diverse academic environment, and potential (for junior applicants) or evidence (for senior applicants) for establishing an externally funded research program, as appropriate to the candidate's rank.

We seek applicants who will contribute to our programs and expand collaborations with existing faculty at ASU. Located in Tempe with easy access to the outdoors and urban amenities, ASU's vibrant and innovative approaches to research and teaching are charting new paths in education and research in the public interest. Faculty members are expected to develop an internationally recognized and externally funded research program, develop and teach graduate and undergraduate courses, advise and mentor graduate and undergraduate students, and undertake service activities. ASU strongly encourages transdisciplinary collaboration and use-inspired, socially relevant research. Successful candidates will be encouraged to expand expertise and collaborations in these areas. Although the tenure home may be in any of the Ira A. Fulton Schools of Engineering, the School of Computing, Informatics, and Decision Systems Engineering is currently the most involved in the interest areas of this research.

Appointments will be at the Assistant, Associate, or Full Professor rank commensurate with the candidate's experience and accomplishments, beginning August 2021.

Application reviews will begin on **January 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 research interests
- Statement describing teaching interests
- Diversity statement*
- Contact information for at least three references

*Candidates are required to submit a Diversity Statement, outlining their experience and commitment to enhancing diversity and access to education, and working broadly with diverse communities.

For further information or questions about this position please contact Professor K. Selcuk Candan at (*candan@asu.edu*)

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Auburn University

Department of Computer Science and Software Engineering

Lecturer/Senior Lecturer Position

The Department of Computer Science and Software Engineering (CSSE) at Auburn University invites applications for a full-time non-tenure track faculty lecturer or senior lecturer position to begin in spring 2021 or later, for its online Bachelor of Computer Science program (*https://csonline.eng.auburn.edu/*). A successful candidate must possess a master's degree or higher in computer science, software engineering, or a closely related field from an ABET accredited institution prior to the date of appointment. Candidates with (or close to earning) a PhD and who have teaching and/or industrial experience will be preferred. Salary and level will be commensurate with the candidate's qualifications and experience. We encourage candidates from all areas of computer science and software engineering to apply. Excellent communication skills are required.

The typical teaching load will be two 3-credit-hour online courses per 8-week online term (4 terms per academic year). This is a 9-month appointment with the expectation of teaching during the summer term for additional compensation. Application link: *https://aufacultypositions.peopleadmin.com/postings/4210*.

Applicants should submit a cover letter, curriculum vita, statement of teaching philosophy, unofficial transcripts and names (names only, letters not required at application time) of one to three references at the application link above. Submission of teaching evaluations is optional but encouraged. The review process is ongoing and will continue until the position is filled.

The department currently has 25 full-time tenure-track and seven teaching-track faculty members, who support strong undergraduate (Bachelor of Computer Science, Bachelor of Software Engineering, and BS in Computer Science) and graduate programs (MS in CSSE, MS in Cybersecurity Engineering, MS in Data Science & Engineering, and PhD in CSSE). Current student enrollment is over 1200 undergraduate and over 200 graduate students. While teaching faculty are not required to engage in research, the department encourages research and can support activities such as involving undergraduates in research and conference attendance. There is also opportunity for candidates with master's degrees to pursue the PhD degree on a part-time basis. More information about the department is available at *http://www.eng.auburn.edu/csse/*.

CSSE is the highest ranked computer science department in Alabama, fifth

among SEC schools, and among the top 100 departments in the nation according to the latest rankings from U.S. News and World Report. Auburn University is one of the nation's premier public land, sea, and space-grant institutions. Auburn maintains high levels of research activity and high standards for teaching excellence, offering Bachelor's, Master's, Educational Specialist, and Doctor's degrees in agriculture and engineering, the professions, and the arts and sciences. The university is nationally recognized for its commitment to academic excellence, its positive work environment, its student engagement, and its beautiful campus.

Auburn residents enjoy a thriving community, recognized as one of the "best small towns in America," with moderate climate and easy access to major cities or to beach and mountain recreational facilities. Situated along the rapidly developing I-85 corridor between Atlanta, Georgia, and Montgomery, Alabama, the combined Auburn-Opelika-Columbus statistical area has a population of over 500,000, with excellent public school systems and regional medical centers.

Selected candidates must be able to meet eligibility requirements to work legally in the United States at the time of appointment for the proposed term of employment. Auburn University is an EEO/Vet/Disability Employer and committed to building an inclusive and diverse community. It is our policy to provide equal employment opportunities for all individuals without regard to race, sex, religion, color, national origin, age, disability, protected veteran status, genetic information, sexual orientation, gender identity, or any other classification protected by applicable law. Auburn University is understanding of and sensitive to the family needs of faculty, including dual-career couples.

Auburn University

Department of Computer Science and Software Engineering

Multiple Faculty Positions

The Department of Computer Science and Software Engineering (CSSE), situated within the Samuel Ginn College of Engineering, invites applications for multiple tenure-track faculty positions. We seek candidates at the Assistant Professor level, although outstanding candidates at a senior level will also be considered. Salary will be commensurate with the candidate's qualifications. Responsibilities include research, graduate student supervision, graduate and undergraduate teaching, and service. A Ph.D. degree in computer science, software engineering, or a closely related field must be completed by the start of appointment. Applicants must have the potential to develop a vigorous externally funded research program and a commitment to teaching.

While applications from candidates with expertise in any area of computer science will be considered, focus areas are **Human-Computer Interaction** (HCI), **Systems** (broadly defined to include operating systems, compilers, programming languages, software environments, advanced architectures, parallel and distributed computing, etc.), **Software Engineering** (SE), and **Data Science**. We are especially interested in candidates with expertise in multiple areas such as HCI & SE, HCI & Artificial Intelligence, SE & Security, and Systems & Quantum Computing. *We welcome applications from women and those belonging to underrepresented groups in computer science.*

CSSE is home to the Auburn Cyber Research Center (***http://cyber.auburn.edu***), and is affiliated with the McCrary Institute for Cyber and Critical Infrastructure Security (***http://mccrary.auburn.edu***). The department has 25 full-time tenure-track and 7 teaching-track faculty members, who support a dynamic research enterprise and strong undergraduate and graduate programs (M.S. in CSSE, M.S. in Cybersecurity Engineering, M.S. in Data Science & Engineering, and Ph.D. in CSSE). Current student enrollment is over 1200 undergraduate and over 200 graduate students. Further information may be found at the department's home page ***http://www.eng.auburn.edu/csse***.

CSSE is the highest ranked computer science department in Alabama, fifth among SEC schools, and among the top 100 departments in the nation according to the latest rankings from U.S. News and World Report. It was one of the first computer science departments in the nation to offer an ABET accredited undergraduate

degree in software engineering. The college of engineering is ranked among the top 30 public engineering colleges in the country. Auburn University is one of the nation's premier public land, sea, and space-grant institutions. As a Carnegie R1 research university, Auburn maintains high levels of research activity as well as high standards for teaching excellence, offering Bachelor's, Master's, Educational Specialist, and Doctor's degrees in agriculture and engineering, the professions, and the arts and sciences. Organized into twelve academic colleges and schools, Auburn's 1,643 instructional faculty members offer more than 200 educational programs. The University is nationally recognized for its commitment to academic excellence, its positive work environment, its student engagement, and its beautiful campus.

Auburn residents enjoy a thriving community, recognized as one of the "best small towns in America," with moderate climate and easy access to major cities or to beach and mountain recreational facilities. Situated along the rapidly developing I-85 corridor between Atlanta (GA) and Montgomery (AL), the combined Auburn-Opelika-Columbus statistical area has a population of over 500,000, with excellent public school systems and regional medical centers.

Applicants should submit a cover letter, curriculum vita, research vision, teaching philosophy, and names of three to five references at *https://www.auemployment.com/postings/20004*. There is no application deadline.

The application review process will begin December 1, 2020 and continue until successful candidates are identified.

Selected candidates must be able to meet eligibility requirements to work legally in the United States at the time of appointment for the proposed term of employment. Auburn University is an Affirmative Action/Equal Opportunity Employer. It is our policy to provide equal employment opportunities for all individuals without regard to race, sex, religion, color, national origin, age, disability, protected veteran status, genetic information, sexual orientation, gender identity, or any other classification protected by applicable law. Auburn University is supportive of the family needs of faculty, including dual-career couples.

Augustana College

Assistant Professor (Tenure Track), Computer Science

Augustana College invites applications for a tenure-track position in Computer Science. The ideal candidate will have (or be nearing completion of) a Ph.D. in Computer Science or a closely related field, and be committed to excellence in teaching and mentoring undergraduate students.

For details, and to apply, visit: *https://augustana.interviewexchange.com/jobofferdetails.jsp?JOBID=127557*

Baidu USA

Postdoctoral Researchers in Cognitive Computing

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

Qualifications:

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

Locations: Bellevue WA, Sunnyvale CA, or Beijing China. Please send CV to *ccl-job@baidu.com*

Professional Opportunities

Baidu Research Cognitive Computing Lab

Postdoctoral Researchers in Cognitive Computing

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

Qualifications:

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

Locations: Bellevue WA, Sunnyvale CA, or Beijing China. Please send CV to *ccl-job@baidu.com*

Boise State University

Lecturer

The Department of Computer Science at Boise State University invites applications for a full-time Lecturer to teach undergraduate courses. Seeking applicants with a passion for teaching.

Applicants should have a Master's degree in computer science or closely related field. A Master's degree in another field is acceptable if Bachelor's degree is in computer science or closely related field.

Boise State has made significant investment in the growth of the department, which is a critical part of the software and high-tech industry in Boise. Eighteen new faculty hires, a new building downtown, and new undergraduate and graduate programs have been added as the department has more than tripled in size. In 2020, U.S. News and World Reports ranked the department's undergraduate program No. 171 out of 481 national universities.

About the City of Boise:
http://www.boisechamber.org/

About the Department:
http://boisestate.edu/coen-cs/

Application Procedure Instructions:

Please visit our *Lecturer Posting* to submit a cover letter addressed to the CS Search Committee indicating your interests and qualifications for this position, a resume or CV that includes employment history (including dates of employment), and three professional references with contact information.

Boise State University

Assistant or Associate Professor, Computer Science

The Department of Computer Science at Boise State University invites applications for a tenure-track/tenured faculty position at Assistant/Associate ranks. Seeking applicants in software engineering with an emphasis in secure software or other cybersecurity related research. Exceptional software engineering applicants without a cybersecurity background will also be considered.

Candidates are expected to teach undergraduate and graduate courses, develop a strong research program funded by external sources, support and mentor undergraduate and graduate students, and provide service to the University and the profession along with other activities typical for a tenure-track faculty.

A PhD in computer science, or a closely related field, is required by the date of hire. Applicants for the associate professor rank should have an established record of excellence in teaching, significant contributions in research, and experience in collaborating with faculty or industry to develop and sustain funded research programs. Applicants for the assistant professor rank should have a demonstrated potential for establishing such a record.

Boise State has made significant investment in the growth of the department, which is a critical part of the software and high-tech industry in Boise. Eighteen new faculty hires, a new building downtown, and new undergraduate and graduate programs have been added as the department has more than tripled in size. In 2020, U.S. News and World Reports ranked the department's undergraduate program No. 171 out of 481 national universities.

About the City of Boise: *https://boise.org/*

About the Department: *https://www.boisestate.edu/coen-cs/*

Application Procedure Instructions:

Please visit *https://jobs.boisestate.edu/en-us/job/493142/assistant-or-associate-professor* to submit a cover letter addressed to the CS Search Committee indicating your interests and qualifications for this position, a CV that includes employment history (including dates of employment), and statements of research and teaching interests. Provide three professional references with contact information.

Brown University

Open-rank Faculty Position in Data Science

The Data Science Initiative (DSI) at Brown University seeks applications for an open rank faculty position, in partnership with Brown University's Department of Computer Science (*http://cs.brown.edu/*). Successful candidates will have a joint appointment and space for themselves and trainees in DSI, with the Department of Computer Science as their tenure home.

Engaging partners across campus and beyond, DSI facilitates and conducts both domain-driven and fundamental research in data science, educates the next generation of data scientists, and is particularly interested in the impact of the data revolution on culture, society, and social justice. DSI and CS strive to build a diverse and inclusive environment for all members of our community, and seek candidates whose scholarship, teaching and service can further our efforts. Brown also aims to foster a diverse and inclusive environment; its detailed vision and action plan for realizing this commitment is articulated in Pathways to Diversity and Inclusion (see link below).

While we welcome applicants working on a range of fundamental problems areas in data science and computer science, we are particularly interested in candidates whose work addresses real-world societal challenges in domains such as social equity and justice, and health. The Department of Computer Science is conducting an additional faculty search for an Assistant Professor; candidates who wish to be considered in both searches should apply to each search separately; detailed information on the CS search is available at *https://apply.interfolio.com/79395*.

DSI was founded in 2016 and serves as a campus hub at Brown University for research and education in data science; recent faculty hires have happened in partnership with the Department of Biostatistics (School of Public Health) and the Department of Earth, Environmental, and Planetary Sciences. On 164 Angell Street in the heart of Brown University's main campus, DSI is co-located and partners with Brown University's Center for Computational Molecular Biology, whose core faculty are drawn from the Departments of Computer Science, Biostatistics, Ecology and Evolutionary Biology and Molecular Biology, Cell Biology, and Biochemistry, as well as the Division of Applied Mathematics. 164 Angell Street also houses Brown's Carney Institute for Brain Sciences.

Junior applicants must have completed all requirements for the doctoral degree by the start of the position. The initial appointment as assistant professor at Brown University is for four years and is renewable. We are eager to try to accommodate the needs of, and welcome applications from, dual career couples.

To apply, please submit the following to Interfolio (*https://apply.interfolio.com/80251*): curriculum vitae, concise research and teaching statements, diversity statement (discussed further below), and for junior applicants, three letters of recommendation, with at least one letter addressing the applicant's teaching abilities and experience. Applicants for senior positions should submit five names of references whom the committee may contact.

In the diversity statement, we ask that applicants summarize their past or planned contributions to diversity and inclusion. These contributions may arise from teaching/mentoring, outreach activities, lived experience, or other activities. (For additional information about the university's and Computer Science department's commitment to diversity and inclusion, see *www.brown.edu/about/administration/institutional-diversity/pathways* and *www.cs.brown.edu/about/diversity*.)

To receive full consideration, please submit all application materials by **December 1, 2020**. Inquiries should be addressed to *dsi-info@brown.edu*.

California State University, San Bernardino

Director, School of Computer Science and Engineering

California State University, San Bernardino (CSUSB), a comprehensive university of The California State University, one of the largest and most widely-recognized institutions of higher education in the nation, invites applications for an academic administrative leader with a collaborative and inspiring vision for the position of Director of School of Computer Science and Engineering (CSE). The successful candidate should be eligible for appointment at the level of Professor or Associate Professor with tenure to begin in August 2021.

As one of the largest department/schools in the College of Natural Sciences, the School of Computer Science and Engineering (CSE) has 12 tenure-track faculty with a variety of research interests and approximately 1000 students with diverse backgrounds. CSE offers 4 undergraduate and 1 graduate programs, i.e., B.S. in Computer Science (ABET accredited), B.S. in Computer Engineering (ABET accredited), B.S. in Bioinformatics, B.A. in Computer Systems, and M.S. in Computer Science.

The School Director reports to the Dean of the College of Natural Sciences and is a 12-month 0.75 position. The director will provide strong academic leadership in the planning and administration of graduate and undergraduate programs in computer science and engineering, assist the entire faculty in developing new initiatives and a viable strategic vision, teach courses, maintain an active research program involving undergraduate and/or graduate students, work with the CSUSB Office of Advancement in fundraising, and maintain and extend our existing strong relationship with industry and government agencies. The overall responsibilities of the Director position are described in FAM 641.65, which is available at: *https://www.csusb.edu/faculty-senate/fam/600-675-personnel/640-644-recruitment-appointment-responsibilities-related*.

The preferred candidate should meet the following qualifications:

- Ph.D. in Computer Science or Computer Engineering discipline.
- Candidates should be eligible for appointment at the level of Professor or Associate Professor with tenure.
- Demonstrated administrative experience as a department chair/school director.
- Excellent leadership, communication and interpersonal skills
- Excellent record of teaching at undergraduate and graduate level
- Excellent record of publication and research funding
- Excellent record of leadership in ABET Accreditation

For more information on how to apply, please visit *https://www.csusb.edu/cse*.

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

If you are interested in this opportunity, we invite you to apply by using this CSU Recruit hyperlink at:

https://secure.dc4.pageuppeople.com/apply/873/gateway/Default.aspx?c=apply&sJobIDs=497961&SourceTypeID=803&sLanguage=en-us&lApplicationSubSourceID=11248

Carnegie Mellon University

Assistant, Associate, or Full Professor

The Institute for Software Research (ISR) in Carnegie Mellon University's School of Computer Science seeks candidates with strong academic credentials and compelling research vision for tenure-track faculty appointments at the rank of assistant, associate, and full professor.

Our research and educational programs focus on societal computing and

software engineering. We are interested in candidates across these areas. We particularly encourage applications from candidates with interests in social network analysis and network science. ISR already has strength in these areas, as showcased by our IDeaS and CASOS centers, which we are seeking to extend and complement.

To apply, please submit your materials by Dec 18, 2020 via the SCS application page (*https://apply.interfolio.com/77192*) and mention ISR in the cover letter or societal computing as an area of interest.

We are especially interested in candidates with diverse backgrounds and a demonstrated commitment to excellence and leadership in research, undergraduate and graduate teaching, and/or service towards building an equitable and diverse scholarly community. We particularly seek candidates with a demonstrated track record in mentoring and nurturing female and underrepresented minority students. In keeping with the CRA best practices on evaluating scholarship, we pay close attention to a candidate's educational contributions, research quality and impact as opposed to arbitrary numerical measures of productivity. Carnegie Mellon considers applicants for employment without regard to, and does not discriminate on the basis of, gender, race, protected veteran status, disability, sexual orientation, gender identity, and any additional legally protected status.

ISR is an academic department with forty faculty members whose research portfolio includes network analysis, security and privacy, social media analysis, Internet of Things, software engineering, mobile systems, and related topics. These interdisciplinary topics build on core computer science, human and organizational behavior, and policy and business considerations. ISR hosts two PhD programs and several master's programs, with more than a hundred affiliated graduate students.

The School of Computer Science (SCS) at Carnegie Mellon is home to seven departments and over 270 tenure-track, research, and teaching faculty with expertise spanning traditional computer science, human-computer interaction, language technology, machine learning, computational biology, software engineering, and robotics. The SCS offers a highly collaborative and uniquely interdisciplinary research environment that promotes innovation and entrepreneurship in both teaching and research.

Carnegie Mellon University Qatar

Faculty Position in Computational Biology

Description

Carnegie Mellon University in Qatar invites applications for a teaching-track faculty position at any level in the field of Computational Biology. We are seeking applications from candidates in all areas of computational biology whose work and expertise is computational or combines computational approaches to solving biological problems. This is a career-oriented renewable appointment that involves teaching high-achieving undergraduate students.

The position offers a competitive salary and benefits including a foreign service premium, excellent international health care coverage, and allowances for housing, transportation, dependent schooling, and travel.

Qualifications

Candidates must have a Ph.D. in Computer Science or related field, substantial exposure to university-level education, good leadership skills, an outstanding teaching record, and excellent research accomplishments. Strong interest in supervising undergraduate research is a positive attribute. Teaching duties would include, but are not limited to, introductory and advanced computational biology courses.

Application Instructions

Applications, including a cover letter, a curriculum vitae (including publication list), research and teaching statements, a diversity statement (outlining how you have contributed to, or plan to contribute to, diversity, inclusion, and equity), and the contact information for at least three individuals who have been asked to upload confidential letters of reference should be submitted electronically to this link: *https://apply.interfolio.com/81740*

The deadline for applying is January 31 or until the position is filled.

Please send inquiries to the Area Head for Computer Science at CMU-Q; Khaled A. Harras at *kharras@cs.cmu.edu*.

Professional Opportunities

City University of Hong Kong

Professor/Associate Professor/ Assistant Professor

Worldwide Search for Talent

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

Professor/Associate Professor/ Assistant Professor
Department of Computer Science
[Ref. A/430/09]

The Department of Computer Science has internationally known research groups in a number of areas, including bioinformatics, cloud computing, evolutionary computation, information security, machine learning and data science, mobile computing, multimedia computing and graphics, and software engineering. The Department is ranked the 13th best Computer Science Department globally by the US News & World Report (2020).

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

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

Dalhousie University

Assistant Professor of Computer Science (3 positions; restricted to women)

The Faculty of Computer Science at Dalhousie University (*https://www.dal.ca/faculty/computerscience.html*) invites applications for up to three tenure-stream Assistant Professor positions in any area of research focus for the Faculty (*https://www.dal.ca/faculty/computerscience/researchindustry/fcs_research.html*). Positions at the Associate level may be considered in exceptional cases.

As women have been historically underrepresented in Computer Science, this position is restricted to candidates who self-identify as women.

Two of these positions are open to any area of Computer Science, and one of these positions is allocated for applicants in any area of Human-Computer Interaction (HCI) including but not limited to Persuasive Technology, CSCW, HCI4D, Interaction Design, Accessibility, User Modelling, Civic and Urban Computing.

A successful candidate with a high level of research activity in the area of artificial intelligence may be recommended for a Canada CIFAR Artificial Intelligence Chair (*https://cifar.ca*) and/or an affiliation to the Vector Institute (*http://vectorinstitute.ai/*).

The Faculty has research clusters in Big Data Analytics, Artificial Intelligence & Machine Learning, Human-Computer Interaction, Visualization & Graphics, Systems, Networks & Security, Algorithms & Bioinformatics, and Computer Science Education. More information is available at *https://www.dal.ca/faculty/computerscience/researchindustry/fcs_research.html*.

Dalhousie University is located in Halifax, Nova Scotia (http://www.discoverhalifaxns.com), which is the largest city in Atlantic Canada and affords its residents a high quality of life. Dalhousie University is a leading academic and research institution in Atlantic Canada and a member of the U15 research intensive universities in Canada. The Faculty of Computer Science is a research intensive unit that currently comprises over 30 full-time research faculty including two Tier I CRC, two Tier II CRCs, a CIFAR AI chair, and many cross-appointments and adjunct faculty members. We are a fast-growing faculty in the university, with approximately 1400 students, one third of whom are graduate students at the Master's or Doctoral level. The Faculty of Computer Science offers research intensive and applied training at the undergraduate, Master's, PhD, and postdoctoral levels, including the new Master of Digital Innovation program. The Faculty hosts the Dalhousie Institute for Big Data Analytics, which has academic and industry partnerships centred on deep learning and artificial intelligence.

Evidence of a strong commitment to and aptitude for both research and teaching is essential. The successful candidate will be an outstanding scholar who holds or will have completed a PhD in Computer Science or a related area by the appointment date. Applicants should have demonstrated potential to establish independent scholarly research. Evidence of publications with strong peer reference is essential (good journals/conferences and/or highly cited contributions). The ideal candidate will be open to collaborative research within the Faculty. The successful candidate will teach both undergraduate and graduate courses, develop graduate-level courses, and support the Faculty's initiatives. The applicant will be expected to establish a strong externally funded research program, supervise graduate student research, and foster existing and new collaborations with NGOs, government, and/or industry, as well as with members of Dalhousie's research community.

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from Indigenous persons, persons with a disability, racially visible persons, women, persons of a minority sexual orientation and/or gender identity, and all candidates who would contribute to the diversity of our community. For more information, please visit *https://www.dal.ca/hiringfordiversity*. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Review of applications will begin February 3rd, 2021 and will continue until positions are filled. A complete application will include a cover letter, curriculum vitae, statements of research and teaching interests, sample publications, and the names, email addresses and physical addresses of three referees. Applicants are encouraged to indicate in their research statement how they see their research fit in one or more of the Faculty's research focus areas. Candidates interested in the Human-Computer Interaction position should specify this in their cover letter. Candidates should also be prepared to have their referees forward their letters of reference upon request.

All application materials should be submitted directly to: *http://dal.peopleadmin.ca/postings/5007*

Dartmouth College

Associate or Full Professor of Computer Science

The Dartmouth Computer Science department invites applications for The John G. Kemeny Professorship of the Study of Computation and Just Communities. Candidates should have a record of scholarly activity commensurate with an appointment at the rank of Associate Professor with tenure at an R1 institution. Candidates should have a record of research in machine learning with a demonstrated interest in investigating the connections of machine learning to its effects on society and equity. Examples of such work are - but not limited to - the intersection of machine learning with privacy, economic opportunity, algorithmic bias, remote sensing, and text and image processing/misinformation. The successful candidate will have an interest in working closely with Dartmouth College's newly created Wright Center for the Study of Computation and Just Communities. Candidates should have a Ph.D. in Computer Science or a related field.

For more information and to submit applications, please visit: *http://apply.interfolio.com/82209*

Duke University

Open Rank Tenure-Track Faculty Positions - Machine Learning, Data Science, Biostatistics

The Duke University Department of Biostatistics and Bioinformatics invites applications for multiple tenure-track faculty positions in all aspects of machine learning, data science, and biostatistics at all levels. Successful candidates will have a strong interest in motivating their theoretical and/or algorithmic research into deep learning, causal discovery, causal inference, or other areas by real needs in health, broadly-defined. Example application areas include learning from electronic health records or other observational clinical data; biomedical informatics methods for evaluating and improving equity of healthcare or impact of socioeconomic factors on health; and deep learning or probabilistic graphical model learning algorithms for analysis

of data from wearable sensors or other mobile health applications or medical image processing. These examples are not meant to imply a limit on our scope of interest but to illustrate its breadth.

Applicants should hold a Ph.D. in Computer Science, Computer Engineering, Statistics, Biomedical Informatics, Bioinformatics, Biostatistics, or a related field by the date of the start of their appointment. Joint appointments with other departments are possible for appropriate candidates. Particular attractions of this position include the exceptional data and translational opportunities of Duke Health and the School of Medicine, Duke's campus-wide emphasis on artificial intelligence for health as exemplified by the new AI Health Initiative, and the opportunity for a flexible teaching load in order to optimize research productivity and impact.

The Department of Biostatistics and Bioinformatics has Masters and PhD programs, and our algorithmic-oriented faculty also supervise PhD students in other leading programs on campus. Duke has an exceptional history in healthcare innovation, and Durham and the Research Triangle form a vibrant community with an outstanding climate intellectually, culturally, and for year-round physical activity and recreation.

Application review will begin January 1, 2021 and continue until all positions are filled. Applicants are invited to submit application materials via Academic Jobs Online at *https://academicjobsonline.org/ajo/jobs/17690*. Please upload a CV, research statement, and teaching statement, and request at least three references to upload letters of recommendation.

Duke is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's race, color, age, gender, gender expression, gender identity, genetic information, disability, national origin, religion, sex, sexual orientation, or veteran status.

Duke University

Open Rank Faculty Position

The Duke University Department of Biostatistics and Bioinformatics invites applications for multiple non tenure-track faculty positions in all aspects of biostatistics and biomedical informatics at all levels. Of special interest are machine learning from electronic health records and/or socioeconomic determinants of health; methods for improving health equity; causal inference or methods for real world evidence; evaluation of predictive models; and innovative clinical trials design. Exceptional opportunities exist for joint appointments in prestigious clinical research centers including the Duke Clinical Research Institute, the Marcus Center for Cellular Cures, the Duke Center for the Study of Aging and Human Development, and the Duke Center for Human Systems Immunology. Applicants should hold a Ph.D. in Biostatistics, Statistics, Computer Science, Computer Engineering, Biomedical Informatics, Bioinformatics, or a related field by the date of the start of their appointment.

The Department of Biostatistics and Bioinformatics has Masters and PhD programs. Duke has an exceptional history in healthcare innovation, and Durham and the Research Triangle form a vibrant community with an outstanding climate intellectually, culturally, and for year-round physical activity and recreation.

Application review will begin January 1, 2021 and continue until all positions are filled. Applicants are invited to submit application materials via Academic Jobs Online at *https://academicjobsonline.org/ajo/jobs/17689*. Please upload a CV, research statement, and teaching statement, and request at least three references to upload letters of recommendation.

Duke is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's race, age, color, disability, gender, gender expression, gender identity, genetic information, national origin, religion, sex, sexual orientation, or veteran status.

Professional Opportunities

EPFL - Ecole Polytechnique Fédéral de Lausanne

Post-Doctoral Researcher in Distributed and Decentralized Systems (W/M) - 100%

A Post-Doctoral Research position is available in the *Decentralized and Distributed Systems (DEDIS) lab* at *EPFL* led by *Prof. Bryan Ford* in *Lausanne, Switzerland*. The DEDIS Lab creates scalable decentralized technologies designed to empower people by protecting their security, privacy, and personal freedoms in the digital world, and by facilitating human-centric self-organization and digital democracy. We focus not only on building systems that push the state-of-the-art in research, but also on deploying them as usable, documented, open-source contributions and technology transfer projects with industry partners. Our systems are actively deployed in numerous industrial and academic environments. For more information please see the full announcement at: *https://recruiting.epfl.ch/Vacancies/1643/Description/2*

Haverford College

Visiting Assistant Professor of Computer Science - 2021-2022

The Department of Computer Science of Haverford College welcomes applications for a full-time Visiting Assistant Professor for the 2021-2022 academic year.

For more information and a full description, please go to *http://apply.interfolio.com/81757*

Hofstra University

Assistant Professor of Computer Science

Fred DeMatteis School of Engineering and Applied Science-Faculty Position in Department of Computer Science

The Department of Computer Science at Hofstra University (*hofstra.edu/compscience*) invites applications for an anticipated tenure-track faculty position at the Assistant Professor level to begin in Fall 2021. 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 computer architecture, parallel processing, programming languages and graphics/VR. Applicants are expected to have completed a Ph.D. in computer science or a closely related field by September 1, 2021.

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, and BS and MS degrees in Cybersecurity. Current faculty research interests include: 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 1PB 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*.

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.

Illinois Institute of Technology

Tenure Track/Tenure and Part time Adjunct

The Department of Computer Science at Illinois Institute of Technology invites applications for faculty positions: Multiple tenure-track/tenured faculty positions at all ranks to start in Fall 2021 and multiple part-time adjunct faculty in diverse areas of the field, to start in Spring 2021.

Applicants for tenure-track/tenured positions must have a Ph.D. in computer science or a closely related field, demonstrated excellence in research, a record of attracting external research funding appropriate to their rank, and a strong commitment to teaching. We seek outstanding candidates in all areas of computer science; candidates in machine learning, fairness and ethics in AI, cybersecurity, trustworthy computation, and data science are especially encouraged to apply.

Applicants for part-time adjunct faculty positions must have an MS or PhD degree in Computer Science or a closely related field; candidates in all areas of the field will be considered. Commitment to excellence in teaching at both undergraduate and graduate levels is expected. The ability and willingness to develop and offer courses in cutting-edge areas of computer science, particularly artificial intelligence, cybersecurity, and machine learning, is a plus, as is industry experience in software and technology development. Areas needed include, but are not limited to, artificial intelligence, cybersecurity, data science, machine learning, object-oriented programming, and software engineering.

The Department of Computer Science at the Illinois Institute of Technology offers bachelor's, master's, and Ph.D. degrees in Computer Science, as well as bachelor's and master's degrees in Artificial Intelligence, a master's degree in Cybersecurity, and interdisciplinary master's degrees in Data Science and in Computational Decision Science and Operations Research. The department is in a significant growth phase, with multiple faculty hires per year expected for at least the next few years. It is also launching diverse new interdisciplinary research and education programs, and has strong growing partnerships with Chicago's burgeoning tech community.

Illinois Institute of Technology, a private, technology-focused research university, is located just 10 minutes from downtown Chicago. The university has recently completed a successful capital campaign that led to the creation of multiple endowed positions, increased scholarship funding, and the new Ed Kaplan Family Institute for Innovation and Tech Entrepreneurship. In addition to its rigorous research and education programs, Illinois Tech has a long history of strong partnerships and collaborations with local companies, government labs, and nonprofits. The University Technology Park on campus is home to many startups who benefit from close collaboration with faculty and students.

Illinois Institute of Technology is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA employer committed to enhancing equity, inclusion and diversity within its community. It actively seeks applications from all individuals regardless of race, color, sex, marital status, religion, creed, national origin, disability, age, military or veteran status, sexual orientation, and/or gender identity and expression. All qualified applicants will receive equal consideration for employment.

Review of applications for tenure-track/tenured position will begin November 15, 2020, and continue until all available positions are filled.

Applicants should apply online at *https://academicjobsonline.org/ajo/jobs/17357*.

Iowa State University

Tenure Track Faculty Position

The Department of Computer Science in the College of Liberal Arts and Sciences at Iowa State University seeks outstanding applicants for a tenure-track faculty position at the rank of Assistant Professor to start in the 2021-2022 academic year. We are looking for candidates in all areas of Computer Science who complement and expand our current research strengths, including but not limited to, broad areas of computer networks, computer security, embedded, real-time and autonomous systems, high-performance computing, mobile computing, and operating systems. The successful candidate will be responsible for developing and sustaining a strong research program; developing collaborative and interdisciplinary research; publishing in top venues; supervising outstanding graduate students; teaching undergraduate and graduate courses; and enhancing ISU through professional and institutional service. We are interested in exceptional candidates that can expand our research profile in new research areas. We are seeking candidates who share in our mission of achieving excellence through diversity and inclusion. In the department of computer science, and at the University

as a whole, we translate the values of diversity and inclusion into action by seeking a diverse faculty and by seeking individuals who have experience working with diverse students, colleagues, staff, and constituents. A candidate should hold or expect to receive a Ph.D. or equivalent degree in computer science or a closely related field by the date of the employment.

To see required and preferred qualifications and to apply see *https://www.cs.iastate.edu/open-position*.

The Computer Science department resides in the College of Liberal Arts and Sciences offering B.S., M.S., and Ph.D. degrees in Computer Science. The department is proud to be one of the founding departments for the B.S. in Software Engineering, B.S. in Data Science, Data Science Minor and Certificate along with the B.S. and Ph.D. degrees in Bioinformatics and Computational Biology. We are active in interdepartmental graduate programs in Bioinformatics and Computational Biology, Human-Computer Interactions, and Information Assurance. The department participates in many interdisciplinary research collaborations, including partnerships with faculty in bio-sciences, mathematical sciences, and engineering. The Computer Science department has 38 faculty professionals, 684 B.S. students, 47 M.S. students, and 118 Ph.D. students. Many of the department's Ph.D. students are supported by research or teaching assistantships. We have strong research and educational programs in Algorithms and Complexity, Artificial Intelligence, Bioinformatics and Computational Biology, Databases, Data Mining, Information Assurance, Programming Languages, Molecular Programming, Multimedia Systems, Networks, Operating Systems, Robotics, and Software Engineering.

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

For guaranteed consideration, please apply before the application deadline of January 10th, 2020.

Iowa State University is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, genetic information, national origin, marital status, disability, or protected veteran status and will not be discriminated against. Inquiries can be directed to the Office of Equal Opportunity, 3410 Beardshear Hall, 515 Morrill Road, 515 294-7612, email *eooffice@iastate.edu*.

Jio Institute

Full-time Faculty for Assistant, Associate, and Full Professor positions

Jio Institute, a new University located in Navi Mumbai, India, is seeking full-time faculty for Assistant, Associate, and Full Professor positions in the areas of Artificial Intelligence, Data Science, and related fields.

About Jio Institute

Jio Institute is being established by Reliance Industries Limited, the largest private sector company in India (ranked 96th in Fortune's Global 500 list for 2020), and its philanthropic arm, Reliance Foundation. Jio Institute is dedicated to becoming a multidisciplinary institution, providing a world-class environment for research, invention, innovation, lifelong learning and an unparalleled student experience, offering undergraduate, graduate, doctoral and post-doctoral programs in all areas of academic study.

Jio Institute will commence academic sessions from July 2021 with Masters programs in Artificial Intelligence and Data Science, and Digital Media and Marketing Communication, under the guidance of a Global Advisory Council of eminent academicians, researchers, and institution builders.

The Institute plans to develop a research centre focused on AI for All, incorporating research in Artificial Intelligence, Data Science, Retail Analytics, and other related fields with applications in Healthcare, Education, Agriculture among others.

About The Artificial Intelligence & Data Science Program:

Jio Institute's full-time Masters in Artificial Intelligence & Data Science Program is focused on providing a strong academic foundation in the core concepts of AI and Data Science, along with a deep understanding of their applications, to develop technologists and scientists able to contribute and to lead in industrial, entrepreneurial, and research projects.

The AI & DS Program will be fully integrated with the Institute's Research

Centre, and will sponsor post-doctoral research fellows to work with faculty and students.

WHAT ARE WE LOOKING FOR?

1. A Ph.D. in Computer Science, Computer Engineering, Statistics, Artificial Intelligence, Data Science, or related fields.
2. Demonstrated ability to engage in high-quality scholarly research and teaching at the graduate level in areas of AI and Data Science, including, but not limited to: NLP, Computer Vision, Machine Learning, Speech Understanding, Robotics, Planning, Databases, Data Mining, Visualization, and IoT.
3. Demonstrated experience and commitment to student-centred learning and teaching, including project-based learning and engaging students in research.
4. The desire to contribute to community and institution building, and to work collaboratively in a multidisciplinary setting.

Applicants are expected to make significant contributions to research and teaching as faculty of the Artificial Intelligence and Data Science program at Jio Institute. These are full-time appointments beginning in July 2021.

Successful applicants have the rare opportunity to help shape a new institution of higher education and build research and teaching excellence with an emphasis on both Indian and global elements.

We are particularly interested in candidates who have demonstrated experience in fostering an inclusive environment, working with students from diverse backgrounds, and incorporating interdisciplinary perspectives in research.

How to Apply?

Interested candidates should provide the following documents:

- Curriculum Vitae
- Research Statement
- Teaching Statement
- Three professional references with names and email addresses

Applications must be sent to *careers@jioinstitute.edu.in*.

To know more [*https://drive.google.com/drive/folders/1P3fyk7L2KLvTMpgHpLG66cMpsvpplH0e?usp=sharing*].

Louisiana State University

Assistant Professor of Computer Science (Tenure-Track)

The **Division of Computer Science and Engineering** within the School of Electrical Engineering and Computer Science at Louisiana State University invites applications for a tenure-track assistant professor position beginning August 2021. Our focus areas for hiring are human-computer interaction (HCI), computer graphics, augmented and virtual reality, and computer vision. Exceptionally qualified candidates in other areas of computer science will also be considered. The successful applicant will possess a Ph.D. in Computer Science or other relevant discipline and will have a record of published research and the ability to attract funding. Applicants who are all but dissertation (A.B.D.) and will complete the Ph.D. by the time of appointment will be considered.

Applications will be reviewed beginning on December 14, 2020, and the review will continue until the position is filled.

Inquiries should be directed to Search Committee via email at *csesearch@lsu.edu*.

View full position description and apply via our *Career Site*.

Loyola University Chicago

Department of Computer Science

Tenure-Track Assistant Professor in Artificial Intelligence/Machine Learning

Website: *www.cs.luc.edu*

We invite applications for a full-time, tenure-track position at rank Assistant Professor for academic year 2021-2022. We especially welcome candidates who can further the university's efforts to foster diversity, equity, and inclusion. The department comprises fifteen full-time faculty and maintains an active research program with recent funding from NSF, NIH, and other sources.

Candidates must possess, or be close to completing, a PhD in computer science or a closely related discipline, and must have strong records in both research and teaching at the undergraduate and/or graduate levels. We encourage candidates

in all areas of computer science to apply, and especially welcome candidates with a strong background in artificial intelligence/machine learning, along with an interest in interdisciplinary societal issues, such as justice, accountability, ethics, and safety in machine learning applications in healthcare, medicine, business, sociology, criminal justice, and other areas.

Applicants should follow the instructions available at *www.careers.luc.edu/postings/14552*.

Review of applications will begin January 2nd, 2021, and continue until the position is filled. LUC is an Equal Opportunity/Affirmative Action employer with a strong commitment to hiring for our mission and diversifying our faculty.

Loyola University Chicago

Department of Computer Science

Tenure-Track Assistant Professor in Software Engineering/Systems

Website: *www.cs.luc.edu*

We invite applications for a full-time, tenure-track position at rank Assistant Professor for academic year 2021-2022. We especially welcome candidates who can further the university's efforts to foster diversity, equity, and inclusion. The department comprises fifteen full-time faculty and maintains an active research program with recent funding from NSF, NIH, and other sources.

Candidates must possess, or be close to completing, a PhD in computer science, computer engineering, or a related discipline, and must have strong records in both research and teaching at the undergraduate and/or graduate levels. We encourage candidates in all areas of computer science/engineering to apply, and especially welcome candidates with a strong background in software engineering and/or systems, including all relevant technical areas: mobile software development and frameworks, software security, software architecture frameworks, design, modeling, or software analysis and testing, including for adaptive/autonomous systems, databases, cloud computing, and computer networks. Industry experience in these areas is an additional plus.

Applicants should follow the instructions available at *www.careers.luc.edu/postings/14551*.

Review of applications will begin January 2nd, 2021, and continue until the position is filled. LUC is an Equal Opportunity/Affirmative Action employer with a strong commitment to hiring for our mission and diversifying our faculty.

McGill University

Computer Science Approaches Against Racism

The School of Computer Science of McGill University, Montreal, invites applications for a tenure-track appointment (all ranks) with a focus on computer science approaches to address anti-Black racism and other types of social inequities.

Examples of areas of interest include:

- Data science techniques to detect, monitor, and study the presence and consequences of racial inequities in our societies.
- Design of fair/just artificial intelligence and algorithmic systems, with applications toward reducing racial inequities.
- Development of accountable, transparent, and ethical computer systems from critical human-computer interaction and software engineering perspectives.

Candidates should have a doctoral degree at the date of appointment and must have demonstrated the capacity of independent research of excellent quality. They must have a strong publication record in the fields of data science, artificial intelligence, human-computer interaction, or computational aspects of fairness, accountability and transparency (FAccT), and a demonstrated record for the development of new approaches to detect and/or avoid anti-Black racism and systemic biases in computer systems. Background in critical race theory is desirable.

The successful candidate will be expected to conduct high-quality research and secure competitive external funding, teach to a diverse and talented student body and provide service to the University, the profession and society at large.

This position is one of six currently being filled in the areas of African and Black Studies at McGill, in phase one of

a multi-year interdisciplinary initiative designed to strengthen and support research innovation and excellence in the domains of African and Black Studies at McGill University while simultaneously addressing the under-representation of Black faculty in the tenure stream, as laid out in McGill's Action Plan to Address Anti-Black Racism 2020-2025. Preference will be given to candidates who self-identify as Black.

Salary will be negotiable, according to qualifications and experience. The expected start date is August 1, 2021.

For further details of the application process and to submit your application please go to*https://www.cs.mcgill.ca/employment/294*

The selection process will begin January 28, 2021, and continue until the positions are filled.

Montreal is one of the most ethnically and culturally diverse cities in the world. It is a historic and cosmopolitan city, home to six universities, and considered one of the best cities for students. The city is home to a very active AI and IT community, including university-led institutes such as MILA (the Quebec artificial intelligence institute), industry-led AI research groups (Microsoft research, Google Brain, Deepmind, Facebook AI, Samsung Advanced Institute of Technology, Borealis AI, Thales, and several more), as well as a thriving startup community.

McGill University is among the top research-intensive academic institutions in Canada and has been consistently ranked in the top universities worldwide in a number of recent surveys. The School of Computer Science offers a collegial environment with opportunities for interaction with world-class researchers in machine learning, robotics, social data science, bioinformatics, natural language processing, theory of algorithms and complexity, big data systems, communications, and more.

Commitment to Equity and Diversity

McGill University is committed to equity and diversity within its community and values academic rigour and excellence. We welcome and encourage applications from racialized persons/visible minorities, women, Indigenous persons, persons with disabilities, ethnic minorities, and persons of minority sexual orientations and gender identities, as well as from all qualified candidates with the skills and knowledge to engage productively with diverse communities.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.

For more details, please refer to the full posting at *https://www.cs.mcgill.ca/employment/294*.

McMaster University

Department of Computing and Software

Tenure-Track Faculty Positions

McMaster University is located on the traditional territories of the Haudenosaunee and Mississauga Nations and, within the lands protected by the Dish with One Spoon wampum agreement.

Position Description

McMaster University's Faculty of Engineering invites applications for eight tenure-track positions at the rank of Assistant Professor in the Department of Computing and Software; however, exceptional candidates may be considered at the rank of Associate Professor. The positions will be located on the main university campus to begin on July 1, 2021, or shortly thereafter.

Applicants in all areas of Computer Science and Software Engineering are encouraged to apply. The Department has identified specific needs in machine learning, software engineering, human-computer interaction (HCI), security, robotics and mechatronics, theoretical foundations of computer science and software engineering, and high-performance computing with applications to data analytics and health.

The successful applicant must have or be very near completion of a PhD in Computer Science, Software Engineering, or a related discipline, by the time of the appointment. The applicant must also demonstrate a record of excellence

Professional Opportunities

Assistant or Associate Professor in Data Science

Department: Computer Science/Software Engineering

Position Summary:
Monmouth University invites applications for an Assistant or Associate Professor in Data Science opening in the Department of Computer Science and Software Engineering. This anticipated opening would begin in the Fall 2021 semester and is tenure-track. Rank will be commensurate with experience (academe or industrial) and accomplishment in the discipline of data science.

The candidate must have a track record of developing and teaching Data Science classes, and conducting applied research in all areas of Data Science to solve real-world problems with societal impact. The successful candidate will lead the Masters of Science in Data Science program that will start in Fall 2021.

Candidates must have completed a doctorate degree in data science, computer science, or a related discipline by the expected start date. The candidates must be committed to developing and teaching data science and computer science courses at both graduate and undergraduate levels. The candidates will have opportunities to engage in interdisciplinary research collaborations across the university and with companies in the vibrant Jersey Shore technology corridor.

The successful applicant will teach 9 credits per semester of graduate and undergraduate courses (12 credits with a course load reduction for scholarship); will have a Program Director stipend in addition to the faculty salary; will maintain an active research program engaging graduate and undergraduate students; will develop relationships among the companies in the University's proximity; will seek external funding to support the research program; will mentor and advise students; and will serve on committees at the Department, School and University levels.

Monmouth University's Department of Computer Science and Software Engineering offers, in addition to the new Master of Science in Data Science, undergraduate degrees in Computer Science and Software Engineering (two undergraduate programs are ABET-accredited), and Master of Science degrees in Computer Science, Software Engineering and Information Systems.

Required Degree, License or Certifications:
Doctoral degree, ABD candidates may be considered with degree completion expected by date of employment

Required Skills or Software:
Excellent interpersonal, organizational and communication skills

Other Requirements:
Earned doctoral degree in data science, computer science, or other related discipline.

Log in to **https://apptrkr.com/2105603** to apply and see the job duties for this position no later than the deadline date.

Posting Date: 12/17/2020

Located along New Jersey's northern coastline, Monmouth University is a top-tier, private comprehensive institution that is home to innovative academic programs, expert faculty, and nationally ranked Division I athletics. The University enrolls approximately 6,200 students in nearly 60 undergraduate and graduate degree programs, including two doctoral programs.

Small classes geared toward individual attention and immersive learning experiences that extend beyond the classroom, define the student experience at Monmouth. The University's dynamic learning environment empowers students to become active participants in their education while fully preparing them for life after graduation. Monmouth's faculty, experts in their respective disciplines and industries, foster student growth by collaborating with undergraduates and graduates in their research and scholarship.

Approximately one hour from New York City and Philadelphia, Monmouth University sits at the heart of a vibrant culture rich in history, the arts, technology, and entrepreneurship. The University's 168-acre coastal campus has been named one of the most beautiful in the world, and blends the classic elegance of National Historic Landmarks with state-of-the-art facilities. Recent updates include a $47 million renovation to the Edison Science Building and construction of a $16 million stadium, which hosts more than half of the University's student-athletes.

A multitude of experiences is available just outside the campus gates. Access Asbury Park's legendary music scene and diverse cultural opportunities supported by an active LGBTQ community. Enjoy Red Bank's lively theater and dining hub and Long Branch's redeveloped waterfront with recreational and upscale shopping offerings.

Founded in 1933 as Monmouth Junior College, the institution became Monmouth College in 1956 and received its university charter in 1995. Today, Monmouth University is listed in U.S. News & World Report's "Best Colleges," The Princeton Review's "The Best 382 Colleges," and Money magazine's "Best Colleges for Your Money."

Monmouth University is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.

in teaching and research and a willingness and ability to contribute to the department's collegial and collaborative intellectual community as well as university-wide inclusive excellence goals and priorities. Research excellence will be reflected in successful mentoring of graduate students and particularly doctoral students, extramural grant acquisition and publication in high quality peer-reviewed journals and conferences. The successful applicant will teach both undergraduate and graduate level courses. They will also be expected to foster existing collaborations and initiate news ones within their department and with other departments and faculties.

The Department of Computing and Software is one of the top departments for Computer Science and Software Engineering in Canada. We have 25 faculty members with expertise in computer systems, software engineering, theoretical computer science, security, privacy, data analytics, scientific computing, and bioinformatics. The department mentors over 1000 undergraduate students in three programs: computer science, software engineering, and mechatronics engineering. It also mentors more than 120 graduate students in masters and doctoral programs in computer science and software engineering.

McMaster Engineering has a reputation for innovative programs, cutting-edge research, leading faculty, and aspiring students. With over 180 faculty members who mentor approximately 6,000 undergraduate and over 1,000 graduate students, about half of whom are doctoral students, we have earned a strong reputation as a centre for academic excellence and high impact research and innovation. Discover more of what McMaster Engineering and the Hamilton area have to offer academic professionals and their families by reviewing our Information Guide highlighting our research excellence, family-friendly resources and rich local culture. Opportunities for continuous personal and professional growth are also made available through our Faculty's Fireball Academy and the MacPherson Institute.

Commitment to Inclusive Excellence

The diversity of our workforce is at the core of our innovation and creativity and strengths our research and teaching excellence. In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity.

The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from First Nations, Métis and Inuit peoples, members of racialized communities

("visible minorities"), persons with disabilities, women, and persons who identify as 2SLGBTQ+.

We invite all applicants to complete a brief Diversity Survey as part of the application process. It takes approximately two minutes to complete. All questions are voluntary, with an option to decline to answer. All information collected is confidential and will be used to support efforts to broaden the diversity of the applicant pool and to promote a fair, equitable and inclusive talent acquisition process. Inquiries about the Diversity Survey may be directed to *hr.empequity@mcmaster.ca*.

Job applicants requiring an accommodation to participate in the hiring process should contact the Office of the Dean of Engineering at 905-525-9140 ext. 24900 to communicate accommodation needs.

How to Apply:

Please submit the following materials through the University's electronic portal (Job Opening #35597): *https://careers.mcmaster.ca/psp/prepprd/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=1000&JobOpeningId=35597&PostingSeq=1*

Chair
Department of Computing and Software
1280 Main Street West
McMaster University,
Hamilton, ON Canada L8S 4L7

- a letter of application together with a curriculum vitae describing the impact that career interruptions have had on research productivity, if applicable, research statement including a selection of research publications, and a statement on teaching interests and philosophy (including evidence of teaching effectiveness);
- a brief statement describing the contributions you have made or plan to make to inclusive excellence in teaching, research, or service in academic, professional or community contexts (2-page maximum);
- the names of at least three referees; letters of reference are not required and will not be reviewed at the application stage; the Department will request letters of recommendation from referees at later stages of the search process.

Complete applications that are received by January 30, 2021 will receive full consideration. Review of applications will continue until the positions are filled. The effective date of appointment is negotiable, but July 1, 2021 is preferred. All applicants will receive an online confirmation of receipt of their application; however, only short-listed applicants will be contacted for interviews.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. To comply with the Government of Canada's reporting requirements, the University gathers information about applicants' status as either a permanent resident of Canada or Canadian citizens. Applicants need not identify their country of origin or current citizenship; however, all applications must include one of the following statements:

Yes, I am a citizen or permanent resident of Canada

No, I am not a citizen or permanent resident of Canada

Direct any inquiries about this position to *chaircas@mcmaster.ca*.

NEC Laboratories America, Inc.

Researcher/Associate Researcher - Mobile Communications & Networking

The Mobile Communications & Networking (MCN) research department at **NEC Laboratories America, Inc. (***www.nec-labs.com*) is actively engaged in cutting-edge research on wireless sensing, tracking and localization that cover both the algorithmic challenges and the design and development of end-to-end solutions. The solutions focus on practical problems in diverse domains ranging from public safety to digital health and industrial automation. The group is excited to grow in the following two domains.

On **wireless localization and tracking**, the group is looking for highly motivated researchers with expertise in the broad area of low-power, embedded wireless systems, with a particular emphasis on the following skill sets:

- Innovate, design and build embedded wireless systems leveraging state-of-the-art IoT platforms with a keen focus on resource-constrained environments
- expertise in low power RF circuit design
- experience with energy-harvesting, backscatter wireless systems is a plus

- experience in integrating embedded wireless systems with application software to deliver end-to-end solutions

On **wireless sensing**, the group is looking for a highly motivated researcher with expertise in the broad area of digital signal processing, embedded wireless systems, with a particular emphasis on the following skill sets:

- Innovate, design and build wireless sensing systems leveraging state-of-the-art radar, LiDAR, SONAR with a focus on resource-constrained environments
- Expertise/understanding of high-resolution wireless sensing technologies, e.g. mmWave and UWB for sensing of environment and human health characteristics
- Experience in applying signal processing and machine learning techniques to raw signals and translating them to application-level inferences
- Experience in embedded/low-power systems e.g. low power systems, FPGAs, CPLDs is a plus

Ideal candidates will have Ph.D. in CS or EE/ECE, an active research record, expertise in one or more of the above areas, and complement the current strengths of the department.

We are looking for Researchers and/or Associate Researchers in these two domains. Interested candidates should submit a cover letter indicating the domain(s) of interest, C.V., and a research statement on our career page at *https://www.appone.com/MainInfoReq.asp?R_ID=3330680*.

Equal Opportunity Employer

North Carolina State University

Faculty Position In Quantum Computing

Departments of Computer Science and Electrical & Computer Engineering

The Departments of Computer Science and Electrical & Computer Engineering are seeking to fill a joint tenure-track faculty position in quantum computing beginning in August 2021. The position is made possible through an NSF Quantum Computing & Information Science Faculty Fellow Grant. It is anticipated that hiring will be at the Assistant or Associate Professor rank.

Candidates in all areas of quantum computing will be considered, with particular emphasis on topics synergistic with the IBM Q Hub at NC State, *http://quantum.ncsu.edu*, and on candidates whose interests contribute to a rapidly-growing multi-disciplinary quantum community across the NC State campus. Presently, the IBM Q Hub provides access to multiple IBM quantum processors ranging from 1 to 65 qubits, including pulse-level control of qubit operations. Experience or interest in other quantum computing technologies would also be welcome.

Inclusiveness and diversity are integral to NC State's commitment to excellence in research, engagement, and education. We are particularly interested in candidates who have demonstrated experience engaging with diversity through activities such as fostering an inclusive environment, working with students from diverse backgrounds, or incorporating diverse perspectives in research.

Candidates must possess a Ph.D. or equivalent in computer science, electrical or computer engineering, or a related discipline at the time of appointment, and must have demonstrated the potential to build a strong research program and an excellent teaching record.

The Department of Computer Science, part of NC State's College of Engineering, is one of the largest and oldest in the country. Research expenditures, national ranking, and recognition have been growing steadily. For example, we have one of the largest concentrations of prestigious NSF Early Career Award winners (30 of our current or former faculty are recipients.) The ECE Department is one of the top 10 suppliers of ECE talent at the BS level in the US, and also ranks in the top 10 public ECE Departments in total annual research expenditures (ASEE). The CSC and ECE departments have distinguished faculties, including a number of AAAI Fellows, ACM Fellows, and IEEE Fellows. The departments are located in close proximity in state-of-the-art facilities on NC State's Centennial Campus.

NC State University is located in the technology-rich Research Triangle metropolitan area, and faculty members collaborate routinely with local industry. The Research Triangle area is frequently recognized in nationwide surveys as one of the best places to live in the U.S. We enjoy outstanding public schools, affordable housing, and great weather, all in the proximity of the mountains and the seashore.

Applications will be reviewed as they are received. Applicants will receive

consideration starting on November 1, 2020. Applicants should submit the following online at *http://jobs.ncsu.edu* (reference position number 00000597): cover letter, curriculum vitae, research statement, teaching statement, and names and complete contact information of four references, including email addresses and phone numbers. Candidates can obtain information about the departments and their research programs, as well as more detail about the position advertised, at *http://www.csc.ncsu.edu* and *http://www.ece.ncsu.edu*. Inquiries may be sent via email to the Faculty Search Committee Chair, at *qcfacultyhire@ncsu.edu*.

AA/EOE. NC State is an equal opportunity and affirmative action employer. Women and members of other underrepresented groups are encouraged to apply. In addition, NC State welcomes all persons without regard to sexual orientation or genetic information. We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners. Persons with disabilities requiring accommodations in the application and interview process please call (919) 515-3148.

Northeastern Illinois University

Tenure-Track Faculty Position

Department Of Computer Science

The Computer Science Department of Northeastern Illinois University in Chicago invites individuals to apply for a tenure-track, assistant professor, starting August 2021. A Ph.D. in Computer Science or closely related field is required. We will consider applicants from all areas of computer science, especially: Software Engineering and Cyber Security.

Review of applications will begin on January 20, 2021 and will continue until the position is filled.

AA/EOE.

See *https://www.neiu.edu/tenure-track-assistant-professor-computer-science*

Northeastern Illinois University is an Equal Opportunity/Affirmative Action employer and invites applications from Women, Minorities, Veterans and Persons with Disabilities, as well as other qualified individuals.

Northeastern University

Open Rank - Assistant/Associate/Full Professor of Ethics and Computer Science

Position Summary

The Department of Philosophy and Religion and the Khoury College of Computer Sciences at Northeastern University seek to fill an open rank tenure line position in the area of ethics and computer science. The successful candidate will have a strong scholarly record or research program with high relevance to ethics and justice issues raised by robotics, big data, machine learning or other aspects of artificial intelligence. The person filling this position will have training/expertise in both ethics and computer science, and they will contribute to interdisciplinary research and curriculum projects. Applicants should be fluent with the practical aspects of technologies that underlie modern, data-driven systems, such as machine learning and information retrieval. This includes how societal objectives like fairness can be encoded into sociotechnical systems, and the shortcomings of these approaches. They also should be fluent in the philosophical aspects of ethical theory, analysis and methods. This is a joint position between the Department of Philosophy and Religion and the Khoury College of Computer Sciences, with the tenure home to be determined in consultation with the person filling the position.

Candidates should have demonstrated commitment to fostering diverse and inclusive environments as well as to promoting experiential learning, which are central to a Northeastern University education.

Qualifications

A Ph.D. in Philosophy or Computer Science or a related field is required by the appointment start date.

Additional Information

Applications should include a cover letter that addresses the applicant's interest in and qualifications for the position, curriculum vitae, evidence of teaching effectiveness (including sample syllabus for a course related to ethics and computer science), writing sample, and contact information for at least three letters of recommendation. Questions should be addressed to Prof. Ronald Sandler, Search Committee Chair, *r.sandler@northestern.edu*.

To apply, please go to ***http://www.northeastern.edu/cssh/faculty-positions*** and click on the link for full-time positions or full-time interdisciplinary positions or if viewing this description on the Northeastern University website, click "Apply to this job." Review of applications will begin immediately and continue until the position is filled. Applications received by November 30th will be assured full consideration.

The College of Social Sciences and Humanities is a leader in the Experiential Liberal Arts. Founded in 1898, Northeastern University is a dynamic and highly selective urban research university in the center of Boston. Grounded in its signature co-op program, Northeastern provides unprecedented global experiential learning opportunities. The College is strongly committed to fostering excellence through diversity and enthusiastically welcomes nominations and applications from members of groups underrepresented in academia.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion.

All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see ***www.northeastern.edu/diversity***.

Northeastern University

Department of Mathematics Tenured/ Tenure-Track Positions, Open Level

The Department of Mathematics, in the College of Science, and the Khoury College of Computer Sciences, at Northeastern University invite applications for an open tenure-track/tenured faculty position at all levels in the area of Mathematics and Machine Learning, beginning in Fall 2021.

Appointments will be based on research contributions at the interface between Mathematics and Computer Science, combined with a strong commitment and demonstrated success in teaching. The appointment will be joint between the Department of Mathematics in the College of Science and the Khoury College of Computer Sciences.

Candidates will be considered from all areas in Data Science, Machine Learning, Topology, Discrete and Computational Mathematics, and Robotics.

In the Northeastern University College of Science, we embrace a culture of respect, where each person is valued for their contribution and is treated fairly. We oppose all forms of racism. We support

a culture that does not tolerate any form of discrimination and where each person may belong. As a College, we strive to have a diverse membership, one where each person is trained and mentored to promote their success.

Responsibilities will include teaching undergraduate and graduate courses, mentoring student and conducting an independent research program.

A Ph.D. in Computer Science, Mathematics or a closely related field to one of the above-listed areas of expertise by the state date is required. Successful candidates are expected to have or to develop an independently funded research program of international caliber and teaching excellence in undergraduate and graduate courses. Qualified candidates should be committed to fostering diverse and inclusive environments as well as to promoting experiential learning, which are central to a Northeastern University education.

Review of applications will begin immediately. Complete applications received by December 31, 2020 will be guaranteed full consideration. Additional applications will be considered until the position is filled.

To apply, please submit the documentation requested on the ***mathjobs.org web site.*** Applicants invited to interviews will be asked to complete a Northeastern University application on the appropriate website.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values

and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion.

All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see *www.northeastern.edu/diversity.*

Northeastern University

Assistant/Associate/Full Professor

Position Summary

The Khoury College of Computer Sciences invites applications for several tenure-track and tenured faculty positions, beginning in Fall 2021. Applicants at all ranks will be considered. Candidates will be considered from all areas in computer science. The College is especially interested in applicants working on machine learning and artificial intelligence, natural language processing, human-computer interaction and health, ethics and technology, and game design. Candidates are expected to have or to develop an independently funded research program of international caliber and to participate in undergraduate and graduate teaching.

Responsibilities will include teaching undergraduate and graduate courses, mentoring students and conducting an independent research program

Qualifications

A PhD in computer science or a related field is required by the appointment start date

Additional Information

Khoury College has a diverse tenure/tenure-track faculty of 64, and it offers a broad array of research and educational opportunities to students. Since 2012, the college has hired 51 outstanding faculty members, and plans to continue this strategic growth in the coming years. Faculty research spans all areas of computing and is interdisciplinary across seven of Northeastern's colleges; 16 of the 64 faculty have joint appointments with other academic departments, including Electrical and Computer Engineering, Art and Design, Health Sciences, Communication Sciences and Disorders, Physics, Political Science, Psychology, Philosophy and Religion, Business, Mathematics, and Law. Khoury faculty members are integral to Northeastern University's multidisciplinary institutes including the Network Science Institute, the Cybersecurity and Privacy Institute, and the new Institute of Experiential Artificial Intelligence.

The college offers three undergraduate degrees (CS, Data Science and Cybersecurity); seven MS degrees (CS, Health Informatics, Data Science, Cybersecurity, Game Science and Design, Artificial Intelligence, and Robotics) and four PhD degrees (CS, Network Science, Personalized Health Informatics, and Cybersecurity). Several of these are interdisciplinary degrees with other Colleges at Northeastern.

Khoury College is committed to broadening participation in CS to increase diversity of thought and demographics. For undergraduates, Khoury offers 36+ combined majors (CS+X) and has recently launched the Center for Inclusive Computing, which has the mission to broaden participation in undergraduate computing programs nationally. At the graduate level Khoury is now scaling its successful Align MS in CS program for people who did not study CS as an undergraduate. This includes building a consortium of universities in the U.S. to offer similar programs.

Khoury College has grown rapidly over the last five years in response to increased student demand at the BS, MS and PhD level and projects a continuation of this growth for the next few years. We invite you to join a fast-moving, ambitious college with an underlying mission that is best captured by the phrase "CS for Everyone."

Northeastern University is home to 27,000 full- and part-time students and to the nation's premier cooperative education program. The past decade has witnessed a dramatic increase in Northeastern's international reputation for research and innovative educational programs. A heightened focus on interdisciplinary research and scholarship is driving a faculty hiring initiative at Northeastern, advancing its position amongst the nation's top research universities. Khoury

Northeastern University

Tenure-Track - Automation and Artificial Intelligence in Urban Infrastructure System

Department of Civil and Environmental Engineering: Automation and Artificial Intelligence in Urban Infrastructure Systems 2020-2021

As part of a strategic initiative in the areas of automation, robotics, and artificial intelligence in the context of Civil Infrastructure Security and Sustainable Engineering, Northeastern University seeks faculty candidates for tenured or tenure-track appointments at the assistant, associate, or full professor level with a cross-college joint appointment in the Department of Civil and Environmental Engineering and the Khoury College of Computer Sciences across the broad area of Automation and Artificial Intelligence in Urban Infrastructure Systems. The university is in the midst of a significant, multi-year expansion in size and scope, including faculty, facilities, and programs within several disciplines and across disciplinary boundaries.

Candidates should have the background to contribute to the advancement of knowledge through the use of humanics-centric innovative approaches based on recent developments in automation, artificial intelligence (AI), machine learning, data science, intelligent control, planning, sensors and related areas within the broad domain of applications related to Civil and Environmental Engineering. These developments are drivers of change and will dramatically impact the planning, design, operations, and control of Urban Infrastructure Systems. Candidates are especially sought with expertise in the following areas:

Urban Mobility: Urban transportation of people and goods is undergoing a significant transformation with the introduction of connected vehicles, intelligent infrastructure, new types of services (bike sharing, ride hailing, etc.) and concepts such as mobility on demand and mobility as a service. Coupled with technological advances related to electric, connected, and autonomous vehicles, these developments promise to change the nature of urban mobility, while addressing the significant challenges of safety, sustainability, resilience, and equity. Examples of specific areas of interest include, but are not limited to: mobility as a service, mobility on demand, electric vehicles, connected and autonomous vehicles, urban logistics.

Interconnected Infrastructure: Advances in automation technologies fueled by developments in AI, robotics, and sensors provide opportunities to drastically impact the design, control, maintenance, and construction of Civil and Environmental infrastructure. Examples of specific areas of interest include, but are not limited to: sensor data informed modeling, simulation and automated control of infrastructure systems against extreme events, cyber-physical-social infrastructure systems, and AI-based process automation.

Construction Automation and Advanced Materials: This area highlights the convergence of advanced manufacturing processes, informatics and automation in construction

management and/or materials for the built environment. Areas of interest include AI for construction engineering (e.g., topology optimization, computer vision); robotic and automated construction in the field and pre-fabricated manufacturing; interactions of automation and humans; AI-driven materials development and selection, AI- and robotics-enabled future workforce for the architectural, engineering, and construction industry; or other domains that will drive innovations in materials and construction to overcome grand challenges surrounding the built environment.

The hiring efforts at Northeastern University seek to foster education and research across disciplinary boundaries. The successful candidates are expected to demonstrate a proven ability to sustain a research program with emphasis on interdisciplinary and translational research, teach both undergraduate and graduate classes, and be active, recognized leaders in their disciplines.

Candidates should be committed to fostering diverse and inclusive environments as well as to promoting experiential learning, which are central to a Northeastern University education.

Northeastern University is located in the heart of Boston and benefits from the intellectual and cultural vitality of an urban environment. Northeastern is a top-tier research university and premier experiential education institution, and is a National Science Foundation ADVANCE Institutional Transformation site. A university-wide vision for use-inspired transformative research that crosses traditional disciplinary boundaries has resulted in strong cross-departmental ties among the faculty, including joint and affiliate appointments across departments and colleges. The Civil and Environmental Engineering department houses major research centers, including the NIH-sponsored program Puerto Rico Testsite for Exploring Contamination Threats (PROTECT), the NIH-sponsored Center for Research on Early Childhood Exposure and Development in Puerto Rico (CRECE), the NIH-sponsored program on Environmental Influences on Child Health Outcomes (ECHO), as well as the NIST-funded center on Versatile Onboard Traffic Embedded Roaming Sensors (VOTERS). Faculty enjoy collaboration with other research centers and clusters across the College of Engineering, Khoury College of Computer Sciences, College of Science, Bouve College of Health Sciences, College of Arts, Media and Design, D'More-McKim School of Business, and the College of Social Science and Humanities, including the NSF-funded Center for High-Rate Nanomanufacturing (CHN), the DHS-funded Homeland Security Center of Excellence on Awareness and Localization of Explosive-Related Threats (ALERT), the Institute for Experiential Robotics, the Network Science Institute (NSI), the Roux Institute, the Marine Science Center (MSC), the Coastal Sustainability Institute (CSI), the Global Resilience Institute (GRI), the George J. Kostas Research Institute for Homeland Security, the Sherman Center for Engineering Entrepreneurship Education, and entrepreneurship programs in the D'Amore-McKim School of Business.

For further information see: https://cee.northeastern.edu/faculty/faculty-hiring/

Qualifications: A Doctorate degree in civil engineering or a related field is required by the appointment start date as well as excellence in research, teaching, and service. Senior- level candidates should have a demonstrated record of developing transformative solutions to global challenges, sustaining a research program with an emphasis on interdisciplinary and translational research, teaching both undergraduate and graduate classes, and being an active, recognized leader nationally and internationally in the discipline.

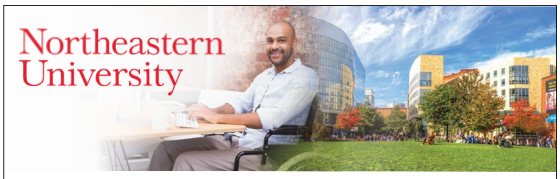
About Northeastern University: Founded in 1898, Northeastern is a global research university and a world leader in experiential learning. The same commitment to connecting with the world drives our use-inspired research enterprise. The university offers a comprehensive range of undergraduate and graduate programs leading to degrees through the doctorate in nine colleges and schools. Our campuses in Charlotte, N.C., San Francisco, Seattle, and Toronto are regional platforms for undergraduate and graduate learning and collaborative research. Northeastern pursues advanced research in security and materials at the Innovation Campus in Burlington, Massachusetts, and in coastal sustainability at the Marine Science Center in Nahant, Massachusetts.

Equal Employment Opportunity: *Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion. All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.*

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity.

How to Apply: Visit the College website **https://apptrkr.com/2053408** and click on Faculty Positions. Applications should be submitted under the position entitled Automation and Artificial Intelligence in Civil and Environmental Engineering Systems and should include (1) cover letter, (2) detailed resume, (3) research development statement, (4) teaching statement, (5) diversity, equity, and inclusion statement, (6) copy of one sample journal paper, and (7) list of four references with contact information. Screening of applications begins December 1, 2020 and continues until the position is filled. Questions regarding this position should be directed to Taryn Sullivan at mailto:cee-auto-AI-search@coe.neu.edu.

To apply, visit **https://apptrkr.com/2053408**



Assistant/Associate/Full Professor
Electrical and Computer Engineering - Robotics

About Northeastern: Founded in 1898, Northeastern is a global research university and the recognized leader in experience-driven lifelong learning. Our world-renowned experiential approach empowers our students, faculty, alumni, and partners to create impact far beyond the confines of discipline, degree, and campus.

Our locations–in Boston; Charlotte, North Carolina; London; Portland, Maine; San Francisco; Seattle; Silicon Valley; Toronto; Vancouver; and the Massachusetts communities of Burlington and Nahant–are nodes in our growing global university system. Through this network, we expand opportunities for flexible, student-centered learning and collaborative, solutions-focused research.

Northeastern's comprehensive array of undergraduate and graduate programs– in a variety of on-campus and online formats–lead to degrees through the doctorate in nine colleges and schools. Among these, we offer more than 195 multi-discipline majors and degrees designed to prepare students for purposeful lives and careers.

About the Opportunity:
Assistant/Associate/Full Professor - Electrical and Computer Engineering - Robotics

Responsibilities: The Department of Electrical and Computer Engineering at Northeastern University invites applications for multiple open positions at all levels. We seek exceptional candidates with research interests and accomplishments in Internet of Things and Networking, Emerging Multiferroic and Quantum Devices, all areas of Electrical and Computer Engineering.

Qualifications: A Ph.D. in Electrical and Computer Engineering, Computer Science or a closely related field to one of the above listed expertise areas by the start date is required. Successful candidates will be expected to develop strong independent research programs and to excel in teaching in both our undergraduate and graduate programs

Preferred Qualifications: Outstanding candidates at all levels will be considered. Candidates should be committed to fostering diverse and inclusive environments as well as to promoting experiential learning, which are central to Northeastern University education.

Additional Information:
Northeastern's ECE department has 63 Tenured/Tenure Track faculty members, with established areas of excellence in high performance computing, robotics, IoT technologies, materials and devices, power systems, cybersecurity (NU is an NSA Center of Excellence in both education and research), and communications/ networking/ signal processing. For more information about the faculty openings please contact chair of the hiring committee at mailto:ecehiringchair@ece.neu.edu

Northeastern University is ideally located in the heart of Boston and is in close proximity to a number of major academic institutions and innovative technology companies and installations. Northeastern's departments and research centers maintain strong collaborative interactions with many of these institutions, and the University is also home to a number of NSF-, DHS-, NIST and NIH-supported core research centers. At the core of the Northeastern engineering education experience is our top ranked cooperative education program.

Applications should include a complete curriculum vita, a statement of current and future research interests, a statement of teaching interests, a statement of diversity, equity and inclusion, and contact information for at least four references. Applications must be completed through the online submission portal at https://apptrkr.com/2059039. Review of applications will begin immediately and will proceed until the positions are filled. Northeastern ECE embraces diversity and seeks candidates who can contribute to a welcoming climate for students and faculty of all races and genders.

Northeastern University seeks to meet the needs of dual career couples and is a member of the New England Higher Education Recruitment Consortium to assist with dual career searches.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion.

All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity.

To apply, visit **https://apptrkr.com/2059039**

Assistant/Associate/Full Professor
Electrical and Computer Engineering

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Northeastern's comprehensive array of undergraduate and graduate programs– in a variety of on-campus and online formats–lead to degrees through the doctorate in nine colleges and schools. Among these, we offer more than 195 multi-discipline majors and degrees designed to prepare students for purposeful lives and careers.

About the Opportunity:
Assistant/Associate/Full Professor - Electrical and Computer Engineering

Responsibilities: The Department of Electrical and Computer Engineering at Northeastern University invites applications for faculty position in Robotics. The position is expected to an interdisciplinary hire between Electrical and Computer Engineering and one of the other colleges within Northeastern University. We are especially seeking exceptional candidates with research interests and accomplishments in all areas of Robotics.

Qualifications: A Ph.D. in Electrical and Computer Engineering, Computer Science or a closely related field to one of the above listed expertise areas by the start date is required. Successful candidates will be expected to develop strong independent research programs and to excel in teaching in both our undergraduate and graduate programs

Preferred Qualifications: Outstanding candidates at all levels will be considered. Candidates should be committed to fostering diverse and inclusive environments as well as to promoting experiential learning, which are central to Northeastern University education.

Additional Information:
Northeastern's ECE department has 63 Tenured/Tenure Track faculty members, with established areas of excellence in high performance computing, robotics, IoT technologies, materials and devices, power systems, cybersecurity (NU is an NSA Center of Excellence in both education and research), and communications/ networking/ signal processing. For more information about the faculty openings please contact chair of the hiring committee at mailto:ecehiringchair@ece.neu.edu

Northeastern University is ideally located in the heart of Boston and is in close proximity to a number of major academic institutions and innovative technology companies and installations. Northeastern's departments and research centers maintain strong collaborative interactions with many of these institutions, and the University is also home to a number of NSF-, DHS-, NIST and NIH-supported core research centers. At the core of the Northeastern engineering education experience is our top ranked cooperative education program.

Applications should include a complete curriculum vita, a statement of current and future research interests, a statement of teaching interests, a statement of diversity, equity and inclusion, and contact information for at least four references. Applications must be completed through the online submission portal at https://apptrkr.com/2058364. Review of applications will begin immediately and will proceed until the positions are filled. Northeastern ECE embraces diversity and seeks candidates who can contribute to a welcoming climate for students and faculty of all races and genders.

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All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity.

To apply, visit **https://apptrkr.com/2058364**

College has been a major participant in this initiative and will continue the efforts this year, with additional interdisciplinary searches ongoing in related areas. Northeastern University has seven campuses located in Boston (the primary home of our tenure/tenure-track faculty), Seattle, San Francisco, San Jose, Charlotte, London, Vancouver and Toronto. Khoury offers the MS in CS and the Align MS in CS at 5 of the 7 campuses. For more information about the College, please visit *https://www.khoury.northeastern.edu*.

Screening of applications begins immediately.

For full consideration, application materials should be received by December 1, 2020. However, applications will be accepted until the search is completed.

Additional information and instructions for submitting application materials may be found at the following web site: *https://hr.northeastern.edu/careers/*

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Northwestern University

Postdoctoral Fellow, School of Communication

Pathways to the Professoriate Postdoctoral Fellowship Program

As part of a continuing commitment to building a culturally diverse intellectual community and advancing scholars from underrepresented groups in higher education, the School of Communication at Northwestern is pleased to announce the Pathways to the Professoriate Postdoctoral Fellowship Program, made possible by the Office of the Provost and SoC through the David Mancosh Pathways to the Professoriate Postdoctoral Fellowship Fund. The goal of the program is to transition fellows to faculty members after two years.

Fields

Applications accepted in the following departments in the School of Communication at Northwestern: Communication Studies, Communication Sciences and Disorders, Performance Studies, and Radio, Television & Film. Please specify your discipline and department of interest when applying, with an understanding that SoC is particularly interested in fellows who can leverage their specific expertise across one or more communication fields within the School.

Award Details

- $65,000 per calendar year, plus health benefits
- $5,000 per year research funds for research expenses, including travel
- $5,000 in moving expenses
- Office space and computer
- Departmental mentoring and workshops
- Offer of a tenure-track position at the end of the fellowship, subject to satisfactory performance

Eligibility

- Applicants must have completed their doctoral degree or terminal degree (e.g., MFA, M.M.) in their field within the past five years and no later than September 1, 2021. In the event that selected applicants have held tenure-track appointments at other institutions prior to joining this program at Northwestern, this will be taken into account in determining the length of the applicant's probationary period ("tenure clock") upon transition to a tenure-track position at Northwestern following this program.
- The primary criterion for selection is evidence of scholarship and creative work competitive for a potential tenure track appointment in the School of Communication at Northwestern University.
- An important secondary criterion is the support of the proposed department to host the fellow.
- Hiring is contingent upon eligibility to work in the United States. Northwestern University strongly encourages applications from individuals that have experience, background and/or

scholarship that will contribute to the diversity of the SoC community.

Applicants should submit the following:

1. Cover letter addressed to Mancosh Pathways Postdoctoral Fellowship Committee
2. Curriculum vitae
3. A statement of research plans (1-3 pages)
4. A Contribution to Diversity Statement articulating why you should be selected for this program (1–3 pages)
5. Writing samples (e.g., publications, dissertation chapters, no more than 25 pages); Creative scholars should submit a portfolio in lieu of writing sample (e.g., Play, screenplay, or a link to a film portfolio)
6. A contact list of three recommenders, including the applicant's dissertation or thesis advisor
7. All Materials must be submitted through online application system at the following link: *https://facultyrecruiting.northwestern.edu/apply/MTAwOA==* by February 5, 2021

Finalists will be contacted by Feb 26, 2021 for interviews. Questions may be directed to *MancoshPostdoc@northwestern.edu*.

Oakland University

Special Instructor of Computer Science and Information Technology

Job Description: The Department of Computer Science and Engineering invites applications for two special instructor positions to begin on August 15, 2021. We are primarily seeking candidates who will be teaching undergraduate courses in Computer Science and Information Technology. These positions also require engagement in outreach programs and institutional and public service. Applicants must have a completed PhD in Computer Science, Information Technology, or related fields by the beginning date of employment. Candidates must have excellent communication skills, ability to teach introductory computer science and information technology courses including programming courses, and willingness to learn new teaching techniques and technologies. College teaching experience in computer science or information technology is preferred. Candidates should have an appreciation of and commitment to the value of diversity and working with a diverse faculty and student body.

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

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

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

Special Instructions: Review of applications will begin on March 1, 2021 and continue until this position is filled. Expected start date is August 15, 2021. Applicants should submit a letter of intent, a statement of teaching, curriculum vitae, transcripts (unofficial) a statement of diversity, and contact information for three references. The diversity statement will describe their interest or efforts in furthering diversity and inclusion e.g. through mentoring, pedagogy, activism, faculty recruitment/retention or research on issues related to diversity and social inequality. The teaching statement should include a list of undergraduate and graduate courses that the applicant will be willing to teach as well as outlines of two courses that the applicant would like to introduce. The candidate should upload their application at *http://jobs.oakland.edu/postings/20105*.

Link: *https://jobs.oakland.edu/postings/20105*

EEO: Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

Professional Opportunities

Old Dominion University

Cybersecurity Lecturer (2 Positions, F0527A, F0081A)

The School of Cybersecurity at Old Dominion University seeks applicants for two lecturer positions with expertise in the broad areas of cybersecurity and cyber operations.

Minimum Qualifications – A Ph.D. in cybersecurity, computer science, or computer engineering, or a closely related field is required for appointment. Successful applicants are expected to have demonstrated successful teaching experience in cybersecurity or cyber operations.

Review of applications will begin February 19, 2021 and will continue until the positions are filled. Applications should be submitted electronically to *https://jobs.odu.edu*.

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. Faculty candidates are sought in areas that include the following: Software Engineering, Artificial Intelligence/Machine Learning, Cybersecurity, Systems and Theoretical Computer Science. 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 60 tenured/tenure-track faculty members and 435 graduate students (225 Ph.D. students). Among the faculty, we have two members of the National Academy of Engineering, 18 professional society (IEEE and ACM) Fellows, and 25 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 *http://oregonstate.edu/jobs/postings/96561* (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. Review of applications begins February 1, 2021 and will occur at regular intervals thereafter.

Polytechnic and State University of Virginia

Faculty Positions in Blockchain Systems

The Department of Computer Science at Virginia Tech seeks applicants for faculty positions in blockchain systems. Candidates seeking tenure-track assistant professor or tenured associate professor positions are encouraged to apply. Exceptional candidates for the full professor rank may also be considered.

The department is growing rapidly thanks to substantial multi-year investments from the university and the Commonwealth of Virginia. Our initiative in blockchain systems research and education is catalyzed in part by a partnership with block.one. Candidates with research interests in multiple areas related to blockchain are encouraged to apply, including scalable distributed systems, cryptography, cryptocurrency, blockchain applications, blockchain software infrastructure and development, etc.

We seek candidates who are motivated to contribute to a collegial, interdisciplinary community. We embrace Virginia Tech's motto, Ut Prosim ("That I May Serve"): we are committed to research, education, service, and inclusivity that makes a positive difference in the lives of people, communities, and the world. Candidates from all backgrounds and lived experiences are encouraged to apply. The positions include packages and resources to enable success. Our new colleagues will benefit from the department's highly-focused faculty development and mentoring program, as well as numerous successful collaborations with government, national labs, and industry partners. Candidates must have a Ph.D. in computer science or a related field at the time of appointment and a rank-appropriate record of scholarship and collaboration in computing research. Tenured and tenure-track faculty are expected to initiate and develop independent research that is internationally recognized for excellence, conscientiously mentor research-oriented graduate students, teach effectively at both graduate and undergraduate levels, and serve the university and their professional communities.

The department fully embraces Virginia Tech's commitment to increase faculty, staff, and student diversity; to ensure a welcoming, affirming, safe, and accessible campus climate; to advance our research, teaching, and service mission through inclusive excellence; and to promote sustainable transformation through institutionalized structures. We cultivate a working environment that respects differences in gender, race, ethnicity, sexual orientation, physical ability/qualities, and religious status. We strongly encourage applications from traditionally underrepresented communities to join us in this critical endeavor.

The department currently has 57 faculty members, including 47 tenured or tenure-track faculty, 15 early career awardees, and numerous recipients of faculty awards from IBM, Intel, AMD, Microsoft, Google, Facebook, and others. CS faculty members direct several interdisciplinary research centers, including the Center for Human-Computer Interaction and the Discovery Analytics Center. The department is home to over 1,200 undergraduate majors and over 300 graduate students, with university commitments to grow all programs significantly. The department is in the College of Engineering, whose undergraduate program ranks 13th and graduate program ranks 31st among all U.S. engineering schools (USN&WR). Virginia Tech's main campus is located in Blacksburg, VA, in an area consistently ranked among the country's best places to live. In addition, our program in the Washington, D.C., area offers unique proximity to government and industry partners and is also expanding rapidly, with Virginia Tech's exciting new Innovation

Penn State ESM/BME Data Sciences/Machine Learning Applied to Biological/Health Sciences

Position: The Departments of Engineering Sciences and Mechanics (ESM) and Biomedical Engineering (BME) seeks applicants for a tenure-track/tenured faculty position with expertise at the forefront of development of Data Sciences or Machine Learning and application to Biological or Health Sciences.

This position is a co-hire between ESM and BME. Engineering Science (http://esm.psu.edu) fosters a highly interdisciplinary environment, promoting collaborations across the engineering disciplines, materials sciences, mechanics, chemistry, physics, mathematics, and biological sciences. Biomedical Engineering (http://bme.psu.edu) combines traditional engineering principles with medicine and technology for the betterment of human health and society.

Candidates who enrich our diversity are strongly encouraged to apply.

Research Expectations: The successful candidates will have demonstrated expertise in the development of modern machine learning and data sciences approaches and expertise and applications to biological and health sciences. Research synergy with faculty of ESM and BME, will be viewed positively, especially in the areas of neural engineering, cancer, and cardiovascular disease research. Example topics of interest include but are not limited to: development of novel modeling and analysis of circuit wide electrophysiological recording; advanced acquisition and processing in neural prosthetics, reverse engineering of brain networks for design of new computing structures; identification of new treatment approaches to diseases including pharmaceutical interventions, development and validation of models to understand complex physiological and pathophysiological phenomena; and development of precision personalized medicine through modeling of electronic health records.

Teaching Expectations: The successful candidate will be expected to support the educational efforts in ESM and BME, to develop coursework targeted to enhancing data sciences training in our engineering education and enhancing data sciences practice in our research.

Institutes and Centers: Cross-disciplinary and cross departmental collaborations are encouraged at PSU and are facilitated through a range of institutes and research centers. This position is envisioned to leverage particularly the Huck Institutes for Life Sciences (http://Huck.psu.edu), Materials Research Institute (http://MRI.psu.edu), the Institute for Computational and Data Sciences (http://icds.psu.edu), and the Center for Neural Engineering (http://cne.psu.edu).

Penn State: Penn State's College of Engineering strives to build a welcoming, inclusive, and supportive environment for students, staff, and faculty. We rely on the expertise, sensitivity, and commitment of an inclusive faculty to enhance diversity, seek equity, and create a welcoming environment within our community.

We are committed to nurturing a learning and working environment that respects differences in culture, age, gender, race, ethnicity, physical ability, sexual orientation, and religious affiliation. In welcoming every candidate, we strive to meet the needs of professional families by actively assisting with partner- placement needs.

Qualifications: Required qualifications include a Ph.D. in an engineering-science or biomedical-related discipline, and track record of accomplishments in both research and teaching. Nominations and applications will be screened immediately and considered until the position is filled.

Application Process: Applicants should submit, in one PDF file: (1) a cover letter summarizing impact in advancing data sciences/machine learning methods, impact in a biological/health sciences, and synergies within the ESM and/or BME departments, (2) curriculum vitae, (3) statements of contributions and plans on (a) research, (b) teaching, and (c) diversity and inclusion, (4) three relevant publications, and (5) names and addresses of four references; to REQ_0000008921.

Application review will begin immediately and will continue until the position is filled. The expected start date is August 15, 2021.

Inquiries: Inquiries can be directed to either of the search co-chairs Dr. Bruce Gluckman or Dr. Keefe Manning, mailto:esm_bme_datasciencesearch@engr.psu.edu

Apply online at **https://apptrkr.com/2106724**

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

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

Tenure-Track Faculty in Social Justice Informatics

The Pennsylvania State University College of Information Sciences and Technology invites applications for one or more open rank, tenure-track faculty positions in Social Justice Informatics. We understand Social Justice Informatics to entail building knowledge (theoretical, empirical, critical, design, and/or computational) that addresses the relationship between digital technologies and urgent inequalities and injustices confronting our democracy and civil society. New hires are expected to integrate with one of our existing areas of expertise: Data Science/Artificial Intelligence, Human-Computer Interaction, Privacy/Security, or Social and Organizational Informatics.

We seek candidates whose research and teaching examine the ways information and communication technologies intersect with issues of equity and justice, with a focus on historically marginalized communities that have been underrepresented or understudied in information sciences and technology. Sites of social justice intervention include (but are not limited to) inequality with regard to race, gender, class, and ethnicity in its many manifestations; poverty; food insecurity; environmental and ecological degradation; human rights; work and labor; geographical marginalization such as developing countries, rurality, ethnic neighborhoods; immigration/migration; data, power, and democracy; access, fairness, accountability, and transparency in IT; the roles of computation in alleviating pressures on marginalized communities; etc.

We invite exceptional candidates with interdisciplinary research and publication records, with backgrounds including informatics, computer science, information studies, critical race studies, women/gender studies, disability studies, political science, ethnic and indigenous studies, civil/criminal law, policy studies, communications, and more. We welcome all methodological approaches, empirical, humanistic, computational, and action research, so long as they contribute towards concrete action for a more equitable and just society in the context of information sciences and technology, broadly understood. These new hires will be instrumental in helping to shape our approach to social justice informatics within the College and connected to Penn State's new Center for Socially Responsible Artificial Intelligence.

Competitive applicants for the position at the rank of Assistant Professor will possess a PhD (or a terminal degree, such as in law) in a field related to sociotechnical studies before beginning employment at Penn State, strong potential for developing an externally funded, collaborative, interdisciplinary research program, and potential to contribute to the college's teaching mission.

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

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

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

University Park is the largest of Penn State's 24 campuses, with approximately 46,000 undergraduates and more than 14,000 graduate students. The surrounding community of State College is a quintessential university town well known for its safe metropolitan area, exceptional quality of life including a low cost of living, a growing economy, a diverse offering of cultural and recreational opportunities, and excellent resources for families, including two on-campus child care centers and well-regarded local school systems.

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

All application materials should be uploaded at the same time at the time of application. Applicants must include with their application the following materials:
(1) Cover letter detailing qualifications for the position
(2) Curriculum vitae including publications list
(3) Research statement outlining future research plans, a teaching statement, and a statement regarding engagement in or commitment to inclusion, equity, and diversity issues as they relate to broadening participation in the disciplines represented in the college and align with the mission of the College.
(4) References (as indicated below)

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

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

Review of applications and nominations will begin as early as January 15, 2021 and will continue to be accepted until the positions are filled.

Apply online at **https://apptrkr.com/2105635**

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

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

Campus in Alexandria, VA, slated to open in 2024. Candidates for faculty positions at the Innovation Campus are encouraged to apply to the separate announcement for those opportunities.

The positions require occasional travel to professional meetings. Selected candidates must pass a criminal background check prior to employment. Applications must be submitted online to jobs.vt.edu for position 514466. Application review will begin on 11/20/20 and continue until the positions are filled. Inquiries should be directed to Dr. Ali R. Butt, search committee chair, at *facdev@cs.vt.edu*.

Purdue University

Tenure-Track/Tenured Professors in Computer Science - Artificial Intelligence

The Department of Computer Science in the College of Science at Purdue University invites applications for multiple tenure-track or tenured positions in the broad area of artificial intelligence. These appointments will be at the level of Assistant or Associate Professor. The positions are part of a continued expansion in a large-scale hiring effort across key strategic areas in the College of Science.

Qualifications: The Department is broadly interested in candidates from all areas of Artificial Intelligence. To expand and enhance our existing strengths, we are particularly interested in machine learning; natural language processing; information retrieval; human-computer interaction; vision; fairness, accountability, transparency, and justice in AI; and reasoning/decision making. Applicants must hold a PhD in Computer Science or a related discipline, have demonstrated excellence in research, and have a strong commitment to teaching. Successful candidates will be expected to conduct research in their fields of expertise, teach courses in computer science, and participate in department and university activities.

The Department and College: The Department of Computer Science offers a stimulating academic environment with active research programs in most areas of computer science. The department offers undergraduate programs in Computer Science and Data Science, and graduate MS and PhD programs, including a Professional MS in Information Security. 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 which 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.

Application Procedure: Applications need to be submitted to *this site* and need to include (1) a complete curriculum vitae, (2) a statement of research and a statement of teaching, and (3) at least three names of reference. 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.

A background check will be required for employment in this position. Review of applications and interviews will begin in November 2020, and will continue until positions are filled. Inquiries can be sent to *ai-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 Professor Positions

School of Electrical and Computer ENGINEERING

The School of Electrical and Computer Engineering at Purdue University invites applications for multiple tenure-track positions at the Assistant and Associate Professor levels. Purdue University seeks to attract exceptional candidates with interests and expertise in) machine learning, artificial intelligence, computer vision, imaging, robotics, natural language

processing, computational neuroscience, learning for control, signal processing, and other data science-related methodologies and ii) wireless communications and data science applications to wireless. These positions are aligned with Purdue Engineering's initiative on Data and Engineering Applications.

Successful candidates must hold a Ph.D. degree in electrical and computer engineering, computer science, statistics or a related discipline and demonstrate excellent potential to build an independent research program at the forefront of their field, as well as potential to educate and mentor students. The successful candidates will conduct original research, advise graduate students, teach undergraduate and graduate level courses, and perform service both at the School 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 School of Electrical and Computer Engineering at Purdue University is proud of its leading research groups in computer engineering, communications, networking, signal and image processing, VLSI, and circuit design. The School hosts several nationally recognized research centers and was recently part of two NSF Engineering Research Centers (ERCs). 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 (7th for graduate programs, 3rd for online graduate engineering programs, and 9th for undergraduate programs per USWNR, 2020) 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 Purdue Engineering Initiatives (PEI's), and facilities. In addition, Purdue University has launched the Integrative Data Science Initiative. Our vision is to be at the forefront of advancing Data Science-enabled research and education by tightly coupling theory, discovery, and applications while providing students with an integrated, Data Science-fluent campus ecosystem.

Use this posting link ***https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=11912&company=purdueuniv*** to submit required application documents including a complete curriculum vitae, a statement of teaching and a statement of research, and names and contact information of three references. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at ***coeacademicaffairs@purdue.edu***.

Review of applications will begin on November 16, 2020, and will continue until position is filled. A background check will be required for employment in this position.

Purdue is an ADVANCE institution ***http://www.purdue.edu/advance-purdue/***. Purdue University's School of Electrical and Computer Engineering is committed to advancing diversity in all areas of faculty effort including scholarship, 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. 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

Tenure-Track/Tenured Professors in Computer Science - Data Science

The Department of Computer Science in the College of Science at Purdue University invites applications for tenure-track or tenured positions in the broad area of data science. The appointments would start in August 2021 or a future date subject to negotiation. Early career candidates with exceptional qualifications may be considered for a term-limited early career endowed professorship.

We are interested in all standard aspects of data science relevant to computer science, including:

- systems research into data-science computing platforms
- theory and data science
- computational science and engineering, scientific computing, and scientific machine learning

- numerical optimization and numerical methods for data science
- high performance computing for data science
- topological and geometric aspects of data analysis
- software engineering for data science.

Appointments are expected to be at the level of Assistant or Associate Professor. The positions are part of a continued expansion in a large-scale hiring effort across key strategic areas in the College of Science. Please also see the Computer Science positions posted for Artificial Intelligence and Theory searches as data science candidates may also be relevant to those positions. There are other posted positions in data science at Purdue as well in both the Mathematics and Statistics departments. Candidates are encouraged to apply for all that are relevant.

Qualifications: Applicants must hold a PhD in Computer Science or a related discipline, have demonstrated excellence in research, and have a strong commitment to teaching. Successful candidates will be expected to conduct research in their fields of expertise, teach courses in computer science, and participate in department and university activities.

The Department and College: The Department of Computer Science offers a stimulating academic environment with active research programs in most areas of computer science. The department offers undergraduate programs in Computer Science and Data Science, and graduate MS and PhD programs, including a Professional MS in Information Security. 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. 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.

Application Procedure: Applications need to be submitted to *this site* and need to include (1) a complete curriculum vitae, (2) a statement of research, (3) a statement of teaching, 4) at least three names of reference, and (5) the Diversity and Inclusion 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.

A background check will be required for employment in this position. Review of applications and interviews will begin January 15, 2021, and will continue until positions are filled. Inquiries can be sent to *ds-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

Tenure-Track/Tenured Professors in Computer Science - Foundations of Data Science

The Department of Computer Science in the College of Science at Purdue University invites applications for multiple tenure-track or tenured positions in Foundations of Data Science. These appointments will be at the level of Assistant or Associate Professor. The positions are part of a continued expansion in a large-scale hiring effort across key strategic areas in the College of Science.

Qualifications: The department is interested in candidates whose research combines the foundations of data science and theoretical computer science. This includes new algorithmic techniques and principles for processing and analyzing data, advances of the data processing pipeline - ranging from data generation and collection to data analysis and decision making - and theoretical foundations that advance and unify data science application domains. Highly qualified applicants in related areas of theoretical computer science will be considered. Applicants must hold a PhD in Computer Science or a related discipline, have demonstrated excellence in research, and have a strong commitment to teaching. Successful candidates will

be expected to conduct research in their fields of expertise, teach courses in computer science, and participate in department and university activities.

The Department and College: The Department of Computer Science offers a stimulating academic environment with active research programs in most areas of computer science. The department offers undergraduate programs in Computer Science and Data Science, and graduate MS and PhD programs, including a Professional MS in Information Security. 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 which 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.

Application Procedure: Applications must be submitted to *this site* and need to include (1) a complete curriculum vitae, (2) a statement of research and a statement of teaching, and (3) at least three names of reference. 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.

A background check will be required for employment in this position. Review of applications and interviews will begin in November 2020 and will continue until positions are filled. Inquiries can be sent to *foundations-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 Professor in Human-Computer Interaction

The Department of Computer Graphics Technology at Purdue University (CGT) seeks a tenure-track Assistant Professor in the field of Human-Computer Interaction (HCI). An earned doctorate in a field related to Human-Computer Interaction (HCI), completed by August 1, 2021 Focus areas may include interactive computing, computer science, digital media, information sciences, engineering, computational media, information design, tangible and embodied interaction, AR/VR/xR, interactive media development, user experience, and visualization. Evidence of the ability to pursue interdisciplinary funded research and work with and teach diverse groups of students is required.

The full advertisement, application requirements, and submission instructions can be found at: *https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=11874&company=purdueuniv*.

A background check will be required for employment in this position.

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

Purdue University

Assistant Professor in Interactive Applications Development

The Department of Computer Graphics Technology at Purdue University (CGT) seeks a tenure-track Assistant Professor in the field of Interactive Media Development (IMD). An earned doctorate in a field related to interactive media development (IMD) or information science, completed by August 1, 2021. Focus areas may include interactive and human-centered computing, AR/VR/xR, physical computing, computer science, digital media, information sciences, HCI, engineering, computational media, information design, tangible and embodied interaction, user experience, and

visualization. Evidence of the ability to pursue interdisciplinary funded research and work with and teach diverse groups of students is required.

The full advertisement, application requirements, and submission instructions can be found at:*https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=11880&company=purdueuniv*.

A background check will be required for employment in this position.

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 Professor of Practice Positions in Computer Science

The Department of Computer Science in the College of Science at Purdue University solicits applications for two Professor of Practice positions at the Assistant or Associate Professor level.

Qualifications: Applicants must hold a PhD in computer science or a related field. Applicants should be committed to excellence in teaching, have the ability to teach a broad range of courses in the undergraduate curriculum, have an enthusiasm for teaching and interaction with students, have an interest in online development and delivery of courses, and have an interest in advising student team projects. The positions are non-tenure track faculty positions with multi-year contracts. Professors of Practice faculty are actively involved in departmental activities and have professional development opportunities.

The Department and College: The Department of Computer Science offers a stimulating academic environment with active research programs in most areas of computer science. The department offers undergraduate programs in Computer Science and Data Science, and graduate MS and PhD programs, including a Professional MS in Information Security. 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 which 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.

Application Procedure: Applications need to be submitted to *this site* and need to include (1) a complete curriculum vitae, (2) a teaching statement that includes the teaching philosophy, interests, and experience, and (3) at least three names of reference. 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.

A background check will be required for employment in this position. Review of applications and interviews will begin in November 2020, and will continue until positions are filled. Inquiries can be sent to *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.

Rollins College

Visiting Assistant Professor, Computer Science

The Department of Mathematics and Computer Science at Rollins College invites applications for a one-year Visiting Assistant Professor of Computer Science beginning in August 2021.

Our dynamic department is looking for a colleague who is excited about joining a growing program at a liberal arts college. The successful applicant should be able to teach a variety of computer science courses, ranging from introductory level

to advanced undergraduate. We are looking for a candidate who is passionate about advancing equity and inclusion in computer science. In addition to disciplinary scholarship, our department values both community-engaged projects and research that advances computer science education.

A PhD in computer science or a related area is preferred. Candidates with a Master's degree may be considered for a Visiting Lecturer position.

Rollins is nationally recognized for its engaged approach to liberal education. Our students and alumni attain positions at some of the world's leading technology companies and government labs, including Apple, Amazon, EA, and NASA. Other recent students are attending graduate programs at Georgia Tech, Johns Hopkins, and Harvard, among others.

Special Instructions to Applicants:

Interested applicants must apply online via the College's employment website and upload the following materials:

https://jobs.rollins.edu/en-us/job/493078/visiting-assistant-professor-computer-science

Letter of interest/Curriculum vitae/ Statement on teaching philosophy

Provide three reference names and email addresses on application.

Questions may be directed to Dr. Dan Myers, chair of the search committee, at *dmyers@rollins.edu*.

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

Rutgers University

Postdoctoral Associate

DIMACS Center

DIMACS, the Center for Discrete Mathematics and Theoretical Computer Science, invites applications for postdoctoral associate positions for 2021-23. Applicants should be recent PhDs with interest in DIMACS areas, including theoretical computer science, discrete mathematics, statistics, operations research, data science, AI, machine learning, and their applications. Application review begins January 15, 2021.

For information see *https://jobs.rutgers.edu/postings/122935*.

DIMACS is an EO/AA employer.

Rutgers University

Postdoctoral Associate in Security and Privacy

Applications are invited for multiple postdoctoral associate positions in security and privacy, primarily with application to healthcare. The positions are fully funded for multiple years.

Salary will be commensurate with experience and Rutgers provides excellent benefits.

A detailed job description and the link to apply is available at: *https://jobs.rutgers.edu/postings/121609*

San Francisco State University

Department of Computer Science

Assistant Professor - DB/HCI/Distributed Computing

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

Position description available at *http://cs.sfsu.edu*. Application review begins 12/1/2020, continues until filled, Send letter of intent, a current CV, a statement on how your teaching and scholarship align with the commitment of the CS Department to foster an inclusive and diverse academic community; representative publications; teaching

statement; research statement; contact information of three references at AcademicJobsOnline (Job: 17140) *https://academicjobsonline.org/ajo?action=joblist&id=17140&send=Go&.cgifields=all*. Letters of recommendation upon request at a later date.

San José State University

San José, California
Department of Computer Science and Science Education Program
Rank: Assistant Professor (tenure-track)

Starting Date: August 2021

Eligibility: Employment contingent upon eligibility proof for working in US.

Application Procedure:

All materials are due by February 15, 2020 for full consideration.

Apply at *https://jobs.sjsu.edu/en-us/job/498559/assistant-professor-computer-science-education*

San José State University

San José, California
Department of Computer Science
Rank: Assistant Professor (tenure-track)

Starting Date: August 2021

Eligibility: Employment is contingent upon proof of eligibility to work in the United States.

Application Procedure:

All materials are due by November 30 2020 for full consideration.

Apply at: *http://jobs.sjsu.edu/sj/en-us/job/497955?lApplicationSubSourceID=*

San José State University

Assistant Professor - Computer Engineering

The Computer Engineering Department at San José State University (SJSU), http://cmpe.sjsu.edu/, invites applications for two tenure-track faculty positions at the rank of Assistant Professor. Areas of particular interest include artificial intelligence and machine learning, visualization and user experience, data analytics and design thinking, virtual and augmented reality, data mining and big data, robotics, computer systems architecture, FPGA, and embedded systems, but other areas in computer and software engineering will also be considered.

To apply, please visit: *https://jobs.sjsu.edu/en-us/job/497818/assistant-or-associate-professor-computer-engineering*

Equal Employment Statement:

SJSU is an Equal Opportunity Affirmative Action employer. We consider qualified applicants for employment without regard to race, color, religion, national origin, age, gender, gender identity/expression, sexual orientation, genetic information, medical condition, marital status, veteran status, or disability.

It is the policy of SJSU to provide reasonable accommodations for applicants with disabilities who self disclose.

Seattle University

Chair of Department of Computer Science and Amazon Endowed Chair

Position Description

Seattle University invites applications for a tenure-track Associate or Full Professor to serve as Chair of the Department of Computer Science beginning July 1, 2021. Responsibilities include teaching, service and maintenance of an active scholarly program. The person appointed to this position will hold the newly created Amazon Endowed Chair in Computer Science, which provides an attractive compensation package as well as funds to support programs for students from groups under-represented in computer science.

Qualifications

Applicants must have a Ph.D. in Computer Science, Software Engineering, or other closely allied field. Candidates should have experience as a tenured professor, program director, or department chair and be capable of leading a dynamic department consisting of over 20 faculty members and 500 students.

Application Instructions

Submit applications through *https://www.seattleu.edu/careers* including a cover letter summarizing qualifications, curriculum vitae, statement of teaching philosophy, and a statement describing how you would contribute to Seattle University's mission, vision, and values, including diversity, equity, and inclusion. Please also include contact information

for three references. Letters of reference may be solicited prior to final interviews.

Application review will begin January 20, 2021, with the search remaining open until the position is filled. Inquiries may be directed to Dr. Eric Larson at *elarson@seattleu.edu*.

Seton Hall University

Assistant Professor

The Department of Mathematics and Computer Science at Seton Hall University (SHU) invites applications for a full-time tenure-track position in Cybersecurity/Computer Science starting in August 2021. The department offers B.S. programs in Computer Science, and Mathematics, a certificate in Cybersecurity and an online M.S. in Data Science. The position requires a Ph.D. in Computer Science or related discipline with research focus in Cybersecurity, such as secure cloud computing or IoT. The successful applicant is expected to participate in grant initiatives at SHU, enjoy interdisciplinary collaboration with SHU faculty, maintain an active research program and teach Cybersecurity and Computer Science courses. Teaching introductory computer science courses, including willingness to learn and apply the Program by Design teaching methodology, is required. The teaching load is three courses per semester.

Applications must include a cover letter, curriculum vitae, three letters of reference, research statement, teaching philosophy and diversity statement. Since Seton Hall University is committed to providing a diverse and inclusive environment, the application must include a statement explaining what diversity means for the applicant with respect to the academic field and the community and how the applicant would support diversity.

Seton Hall University is an Equal Opportunity/Affirmative Action employer. Applicants must understand and be willing to support the Catholic mission of the university.

Submit applications at *https://jobs.shu.edu/cw/en-us/job/494439/tenure-track-cybersecuritycomputer-science*

Stevens Institute of Technology

Tenure-Track Faculty Positions in Computer Science

The Department of Computer Science at the Schaefer School of Engineering and Science (SES), Stevens Institute of Technology (Stevens) invites applications for tenure-track and tenured positions in all areas of Computer Science. In addition to the general search, we seek senior applicants to lead our B.S. and M.S. programs in Cybersecurity.

Applicants should have earned a Ph.D. in Computer Science or a related discipline. The rank of the appointment will depend on experience and qualifications. Successful candidates are expected to develop a strong, externally funded, research program, teach graduate and undergraduate education, supervise graduate students in research, and contribute to the highly interdisciplinary, collaborative, diverse, innovative, and entrepreneurial culture at Stevens.

The Department of Computer Science is home to 26 full-time faculty members, including 16 hired in the last five years, approximately 1,000 undergraduate and graduate students and is the prime occupant of the Institute's new $45 million state-of-the-art academic building. Faculty research is supported by the NSF including 5 CAREER awards, NIH, NSA, ONR, DARPA, and other federal and private funding sources and is carried out by a vibrant group of Ph.D. students, which has grown by 50% in the last few years. The department is home to research labs on AI, machine learning, computer vision, big data analytics, programming languages, cryptography, computer security and software systems, as well as a main constituent of the Stevens Institute for Artificial Intelligence (SIAI). SIAI is a new, interdisciplinary research center that brings together over 50 faculty members from most schools and departments at Stevens.

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

The Department of Computer Science is committed to increasing the diversity of the campus community. Stevens is

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

Applications will be accepted until the positions are filled. All applications must be submitted electronically at *https://academicjobsonline.org/ajo/stevens*. Applicants should submit their curriculum vitae, a research plan, teaching interests and philosophy, and at least three reference letters. For any inquiries, please contact the Search Committee Chair, Professor Philippos Mordohai (*Philippos.Mordohai@stevens.edu*).

Swarthmore College

Swarthmore, PA

Computer Science Department

Visiting Assistant Professor of Computer Science

Description

The Department of Computer Science at Swarthmore College invites applications for multiple Visiting Assistant Professor positions to begin Fall semester 2021. Applicants must have or expect to have a Ph.D. in Computer Science or a related field by the position's start date. All areas of computer science will be considered. The Department also welcomes candidates who conduct interdisciplinary research in the humanities and social sciences.

The Computer Science Department currently has ten tenure-track faculty and three visiting faculty. Faculty teach introductory courses as well as advanced courses in their research areas. Our majors and minors are much more diverse than the national averages in CS and we also have 35% female majors. We have grown significantly in both faculty and students in the last five years. Presently, we are one of the most popular majors at the College and we expect that 17% of students (70 total) graduating from the College in the 2020-21 academic year will major in Computer Science.

Located in the suburbs of Philadelphia and near Wilmington DE, Swarthmore College is a highly selective liberal arts college whose mission combines academic rigor with social responsibility. Swarthmore has a strong institutional commitment to diversity, and actively seeks and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and world. Applicants from traditionally underrepresented groups are strongly encouraged to apply. For more information on Faculty Diversity and Excellence at Swarthmore, see *http://www.swarthmore.edu/faculty-diversity-excellence/information-candidates-new-faculty*

Qualifications

Applicants must have a Ph.D. in Computer Science or expected by Fall 2021. Applicants strong in any area of computer science will be considered.

Application Instructions

Applicants should include a cover letter, a curriculum vitae, a research statement, a teaching statement, and three letters of recommendation, including at least one letter specifically commenting on teaching. Applications will not be considered until letters of recommendation have been submitted. Please address any questions you may have to Kathy Reinersmann, Computer Science Department at *kreiner1@swarthmore.edu*.

Applications received by January 15, 2021 for will receive full consideration. Apply through Interfolio: *https://apply.interfolio.com/80913*. Applications will be reviewed on a rolling basis until all positions are filled. Selected applicants will be invited for interviews. Due to the ongoing COVID-19 pandemic, all interviews will be conducted remotely.

Equal Employment Opportunity Statement

Swarthmore College actively seeks and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and world. Swarthmore College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

TED University

Multiple Tenure-track, tenured, and adjunct-faculty positions in Computer Science

The Faculty of Engineering at TED University (TEDU), Ankara, Turkey invites applications for a tenure-track assistant professor position and multiple adjunct faculty positions starting September 2021. Applicants should hold a Ph.D. in Computer Science or a related field at the time of appointment. Specifically, applicants with strong research expertise and background in any area of computer science or any relevant discipline will receive full consideration.

Ideal candidates for the assistant professor position should have a record of outstanding research in their early careers and a demonstrated ability to pursue and lead a research program. At higher ranks, track record of research accomplishments with successful research funding, publications, and demonstrated leadership, is expected from the candidates. All successful candidates will be expected to establish a vigorous externally-funded research program, show excellence and leadership in scholarly activities, and contribute to teaching a variety of graduate and undergraduate computer science courses effectively. Candidates will have a primary appointment within the Department of Software Engineering and courtesy appointments across the other departments can be considered. Due to the pandemic conditions, remote teaching by candidates may also be considered depending on the needs. Applicants should specify in their cover letters if they are interested in the tenure-track, or adjunct faculty positions.

TEDU is a young, dynamic university, located in the heart of Ankara, capitol city of Turkey. TEDU was established by the Turkish Education Association (TED) which is a leading non-governmental organization in educational field since 1928 in Turkey. With an emphasis on liberal arts education, TEDU transfers its century-old tradition and experience to higher education and aims to foster graduates, who are creative, critical-minded, self-confident, and well-rounded. So far, TED has provided educational initiatives and opportunities to more than 50 thousands of needy yet successful students on the basis of equal opportunity in education, and represented a successful school model in Turkey. Through academically rigorous coursework, dynamic teaching, impactful research, and a myriad of opportunities for students to engage locally and abroad, it builds a diverse community of socially responsible, globally minded, lifelong learners. Sitting at the heart of a vibrant culture-rich city, Ankara, with history, arts, technology, and entrepreneurship, TEDU is surrounded by numerous local and international government agencies, organizations, and non-profits, technology and defense companies in Ankara. Hence, TEDU offers ample opportunities for outreach, engagement, entrepreneurship, collaborations in the community. Moreover, as a center for the performing arts, home to the State Opera and Ballet, Symphony Orchestra, and several national theater companies, capitol city Ankara provides high-quality living standards. More information about TEDU is at *https://www.tedu.edu.tr/en/main/about-tedu*.

Qualified candidates are encouraged to e-mail their applications to both *jobs@tedu.edu.tr* and *muhf@tedu.edu.tr* attaching a cover letter, curriculum vitae, list of references (with names and contact information for at least three references), and statements of research and teaching philosophies all as a single pdf file. The references will be contacted as determined by the search committee. To receive full consideration, applications and required materials should be received by February 15, 2021. Reviews of the applications will continue until the position(s) are filled. TEDU is strongly committed to increasing the diversity of its faculty and welcomes applications from women, dual-career couples, or candidates with disabilities.

Towson University

Assistant Professor in Data Sciences and Distributed Systems

Tenure-track, 10-month Assistant Professor position in the Department of Computer and Information Sciences beginning August 2021. PhD, or comparable terminal degree in Computer Science, Information Systems, Information Technology or a related field. Highly-qualified applicants in all areas of Computer Sciences will be considered. Candidates with an expertise in data sciences will be preferred. With existing undergraduate and graduate

courses in data science and ongoing research in utilizing data science in cybersecurity, software engineering and geographic information systems; a successful candidate will have expertise in teaching and research in one or more of the following areas: data analytics/visualization, big data, machine learning, and data/text mining. Particular interest will be given to those who complement one of the department's current strengths. The selected candidate is expected to teach undergraduate and graduate courses, develop strong research programs, mentor undergraduate and graduate students, apply for external funding, and participate in department activities.

The review of completed applications will begin February 15, 2021 and continue until the position is filled. FCSM-3409

Click *HERE* to apply.

Toyota Research Institute

Research Scientist

The Machine Assisted Cognition (MAC) group at Toyota Research Institute in Los Altos, CA is seeking HCI/AI and ML full-time researchers.

The MAC group is a new interdisciplinary team at Toyota Research Institute focused on enhancing human decision-making that spans behavioral science, machine learning, human-computer interaction, and causal inference. We integrate experimental results, behavioral theory, and machine learning methods to build predictive models of human behavior, and we develop tools to help people engage and interact with those models to make more informed predictions, judgments, and decisions.

The MAC group is hiring for full-time positions. We are explicitly seeking researchers interested in developing novel tools and techniques that can integrate predictions from AI systems to help people make decisions. Relevant backgrounds include explainable AI, conversational AI and UIs, human-AI teams, trustworthy machine learning (fairness, accountability, causality, etc.), and behavioral modeling.

If you are interested in a position, please contact Ron Zimmerman (*ron.zimmerman.ctr@tri.global*).

To learn more and apply, please see: *https://jobs.lever.co/tri/93abd35d-7785-4a19-b100-eb41c7dd961e*

Trinity College

Visiting Assistant Professor of Computer Science

Applications are invited for two two-year, non-tenure-track, full-time positions in computer science at the rank of Visiting Assistant Professor or Visiting Lecturer to start in the fall of 2021. Teaching and research interests in all areas will be considered.

A Ph.D. in computer science at the time of appointment is required for the rank of Visiting Assistant Professor, but candidates with a master's in computer science will also be considered for the rank of Visiting Lecturer. Candidates must already have legal permission to work in the United States.

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

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

Consideration of applications will begin on February 15, 2021, and continue until the position is filled.

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

Professional Opportunities

UNC Wilmington

Department Chair

Computer Science

The Department of Computer Science at University of North Carolina Wilmington seeks an outstanding scholar for an appointment as Chair of the Department of Computer Science starting July 2021. The successful candidate will demonstrate a distinguished body of scientific accomplishments in addition to experience in administrative leadership. A successful track record of recruiting, coaching, leading, mentoring, and retaining diverse teaching- and research-intensive students and faculty is highly valued. A record of collaborating effectively as evidenced by multi-disciplinary research, teaching, scholarship, and/or service is sought and well regarded. Demonstrated success creating and maintaining a collegial and inclusive learning and working environment is strongly preferred.

The Department is on an upward trajectory with annual research expenditures growing to an average of $1M/year over the last three years. Research strengths include machine learning and AI, biometrics, virtual reality and digital arts, computer and network security, mobile computing, and computer science education. The Computer Science Department currently has eighteen full-time faculty members and one visiting scholar. *http://uncw.edu/csc*

The job posting closing date is February 1, 2021. Applications received after that date will not be considered.

Applications must be submitted through the online application system to be considered. Position details and full applicant instructions can be found at *https://jobs.uncw.edu/postings/19542*

Please direct questions concerning the search to Dr. Jess Boersma, Associate Dean, College of Arts & Sciences, Computer Science Department Chair Search Committee, at *boersmaj@uncw.edu*.

For questions regarding the online application process, contact Ms. Katie Shuler at *shulerk@uncw.edu*.

Universidad del Rosario in Bogotá

Full-time Faculty Positions in Energy Systems Engineering, Industrial Engineering, Electrical Engineering, Applied Mathematics and Computer Science

The School of Engineering, Science and Technology at Universidad del Rosario in Bogotá – Colombia – is opening multiple Assistant Professor positions. Successful candidates should hold a Ph.D. degree in Engineering, Applied Mathematics, Computer Science, or related fields, have teaching experience, and conduct research in one or more of the following fields or related areas:

- Renewable energy
- Energy markets
- Energy resources management
- Energy systems planning and operation
- Smart cities
- Logistics
- Digital transformation
- Decision Sciences and finance
- Organizational transformation
- Industry 4.0
- Service industry
- Robotics
- Embedded and Cyber-physical systems
- Communication networks
- Internet of Things
- Computational Geometry
- Computer Graphics
- Information Security
- Cyber Security
- Systems
- Software (enterprise, web, mobile) development
- Data Science
- Artificial Intelligence
- Machine Learning
- Data Analytics
- Probability, Statistics and Stochastic Processes
- Actuarial Sciences

Other related areas will be considered. We are looking for candidates for candidates with a strong international background and experience in research as well as teaching at the undergraduate and graduate levels.

Further information can be found at: *https://bit.ly/33eSg4S*

Inquiries can be sent to *ict@urosario.edu.co*.

Expected starting dates are July 2021 and January 2022, depending on the applicant's availability. Applications are due by Feb 28th, 2021.

University at Buffalo

Assistant Professor of Teaching

The Department of Computer Science and Engineering (CSE) at University at Buffalo (UB) invites candidates to apply for the position of Assistant Professor of Teaching (Lecturer). 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.

Duties include teaching and development of computer science and computer engineering courses at both the undergraduate and graduate level; service which may include student advisement at the undergraduate level; industry internships; laboratory and instrumentation upgrades; student excellence initiatives; ABET objectives; diversity enhancement; and external educational grant support in collaboration with the CSE Undergraduate and Graduate Studies Committees.

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 University at Buffalo (UB), a member of the prestigious Association of American Universities (AAU), 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 and professional students and 1600 fulltime faculty. The School of Engineering and Applied Sciences has 7,300 students enrolled across 9 academic departments.

Minimum Qualifications Applicants should have a PhD degree in computer science, computer engineering, or a related field. Degree must be conferred prior to appointment

Please Apply at: *https://www.ubjobs.buffalo.edu/postings/27258*

University at Buffalo

Professor of Empire Innovation

The Department of Computer Science and Engineering (CSE) at University at Buffalo (UB) invites candidates to apply for a position as Associate Professor or Full Professor to be known as Professor of Empire Innovation. Selected candidates will receive support through the SUNY Empire Innovation Program (EIP) which recognizes high caliber faculty with a proven track record of externally funded research.

We invite prominent leaders in several foundational areas in artificial intelligence and robotic systems, including computer vision (including video analysis and 3D reconstruction), machine learning (including big data analytics and adversarial machine learning), natural language processing (audio-visual multimodal understanding), autonomous systems (such as driverless cars), human-robot collaboration (focusing on attack modeling, privacy preservation, and safety guarantees), knowledge representation and reasoning, and cognitive science (computational linguistics, philosophy, and computer modeling of neural networks and brains).

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. We are particularly looking for candidates who can operate effectively in a diverse community of student and faculty and share our vision of helping all constituents reach their full potential.

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 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 fulltime 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 Candidates must demonstrate excellence in research, teaching, service and mentoring. Candidates should be internationally recognized scholars as evidenced by peer-reviewed publications, citations and a sustained externally funded research program.

Please apply online at:

https://www.ubjobs.buffalo.edu/hr/postings/26720

University of Alabama at Birmingham

Open Rank

The Department of Computer Science (CS) at the University of Alabama at Birmingham (UAB) is seeking candidates for two tenure-track/tenured faculty positions. While preference is given to candidates at the Assistant Professor rank, highly qualified candidates at Associate Professor and Professor rank will also be considered. For additional information about the Department, please visit: *http://www.cs.uab.edu/*.

Candidates with expertise in all core CS areas are sought, with preference given to candidates who could complement and enhance current department strengths in the areas of cyber security, data science/machine learning/artificial intelligence, high performance computing, programming languages, and biomedical applications. 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. UAB is a Carnegie "Very High Research Activity" University and ranked No. 1 nationally in the Times Higher Education World University Rankings, 2018 and 2019 Young University Rankings.

The CS Department at UAB offers PhD, 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 the goal is to grow the PhD, 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 and strong collaborations with the UAB Informatics Institute and the UAB Hugh Kaul Precision Medicine Institute. Collaborations with UAB's medical enterprise are strong and growing, with many opportunities for faculty to participate in interdisciplinary work.

A Ph.D. in Computer Science or a closely related field is required. Applications should include 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/8160*.

Review of candidates will begin on February 15, 2021, 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.

Professional Opportunities

University of Alabama in Huntsville

Clinical Assistant Professor in Information Systems – Cybersecurity

The College of Business at The University of Alabama in Huntsville invites applications for a full-time, renewable non-tenure track Clinical Assistant Professor in Information Systems. A PhD in Information System, Cybersecurity or a closely related discipline is required.

Position begins in Fall 2021.

Details at: *http://www.uah.edu/hr/careers/faculty-careers*

University of Alberta

Term-Limited Assistant Professor Positions in Computing Science

The Department of Computing Science at the University of Alberta in Canada invites applications for two Assistant Professor positions starting on July 1, 2021. The appointments are for five years, subject to annual performance evaluations and continued funding. The main areas of interest are: Artificial Intelligence/Machine Learning, Databases, Systems, and Network Science.

Successful candidates may be considered as nominees for a funded/endowed research chair position, e.g., a Canada CIFAR Artificial Intelligence Chair, if the appointment advances the strategic considerations of the Department of Computing Science and of the Alberta Machine Intelligence Institute.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered. The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis, and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.

More details about the position and how to submit applications are available at *https://academicjobsonline.org/ajo/jobs/17845*.

Complete applications and all reference letters must be received by February 14, 2021 for full consideration.

For further information, please email the Department Chair's Executive Assistant, at *cs.ea@ualberta.ca* (using "Term Limited Faculty Positions 2021" as the email's subject).

University of Arizona

Department Head, Computer Science

The Department of Computer Science, College of Science at the University of Arizona is seeking an outstanding teacher/scholar/administrator for a full-time position as **Head of the Department**. The position is anticipated to begin as soon as possible. The administrative appointment as a department head is a year-to-year appointment, but with formal reviews every five years. The faculty appointment is tenured.

The Department of Computer Science at the University of Arizona has a long and distinguished reputation of excellence in the areas of computer systems, software, databases, and theory. Members of the Department of Computer Science are committed to the highest standards of excellence, professionalism, and ethical behavior. We know that creating and sustaining a culture of respect, trust, mutual understanding, and healthy working relationships is essential for our success as individuals and as a department.

The Head of Computer Science is expected to provide long-term visionary leadership and to lead the unit in developing and executing a clear vision to strengthen and expand the role of computer science on campus, in the State of Arizona, nationally, and internationally. The Head is expected to attract, mentor, and retain a diverse cohort of the highest quality faculty, staff and students, and to develop and maintain programs at both the undergraduate and graduate levels that highlight our strengths.

Further details and application information are available at *https://arizona.csod.com/ux/ats/careersite/4/home/requisition/3458?c=arizona*.

The University of Arizona is an **Equal Opportunity Employer - Minorities/ Women/Vets/Disabled.**

Initial review of applications will begin immediately and continue until the position is filled.

Tucson is a vibrant multicultural city located in the southwest of the United States. The city is known for its culinary diversity, exceptional opportunities for year-round outdoors activities, and exciting cultural offerings.

University of Arizona

Lecturers, Senior Lecturers, and/or Principal Lecturers in Computer Science

The Department of Computer Science at the University of Arizona is accepting applications from dedicated educators for non-tenure-eligible, Lecturer-Track (also known as Career-Track) faculty positions at all ranks. Teaching faculty are vital to the department's mission and are appointed with the expectation of long-term employment. The typical teaching load is two courses in each of the Fall and Spring semesters, but factors such as class size may reduce that load. Lecturers at all ranks teach both core and elective undergraduate courses, based on their interests and department needs, and actively participate in departmental faculty meetings, decision-making, planning, and service.

Career-Track faculty positions offer a well-defined promotion path. Applicants must have earned, or expect to complete, either an M.S. or a Ph.D. in Computer Science or a closely-related discipline by the time of appointment. Applicants will be considered for appointment at the Lecturer, Senior Lecturer, or Principal Lecturer ranks based on experience and evidence of teaching quality and effectiveness.

As of Fall 2020, the Department of Computer Science has 30 faculty members, including eight Career-Track faculty (five Lecturers, two Senior Lecturers and one Principal Lecturer). The Department has a long history of excellent undergraduate and graduate instruction and research accomplishment with a diverse and enthusiastic student body.

The University of Arizona's main campus is in Tucson, the heart of a metropolitan area of over a million people surrounded by five mountain ranges. Tucson boasts a warm desert climate, 350 sunny days per year, and a wide variety of outdoor activities. More information about the University and its community is available at *whyUA.arizona.edu*.

To apply, complete an online application at the UA Human Resources website, talent.arizona.edu. The direct link is *arizona.csod.com/ux/ats/careersite/4/home/requisition/3208*. Be sure to include, as directed, (a) your curriculum vitae, (b) a statement of your teaching philosophy and interests, and (c) the names and contact information of at least three professional references.

The University of Arizona is an Equal Opportunity Employer Minorities/Women/Vets/Disabled.

Review of applications will begin immediately and will continue until the positions are filled. Please email *lecturersearch@cs.arizona.edu* if you have any questions or need assistance.

University of Arizona

Tenure-Track Positions in Computer Science

The Department of Computer Science at the University of Arizona invites applications for tenure-track positions at the Assistant Professor level. We are particularly interested in applicants with a background in **Systems, Databases, Natural Language Processing, Deep Learning, Software Engineering, Human Computer Interaction, and Algorithms.** Exceptional candidates in other areas are also encouraged to apply.

The Department has a long history of research accomplishment, influential software distribution, and substantial external funding. Current research areas include algorithms, architecture, bioinformatics, compilers, computational geometry, databases, high performance computing, machine learning, natural language processing, networks, operating systems, security, vision, and visualization.

Further details and application information are available at *https://arizona.csod.com/ux/ats/careersite/4/home/requisition/3209?c=arizona.*

The University of Arizona is an **Equal Opportunity Employer Minorities/ Women/Vets/Disabled**. The Department of Computer Science supports the UA's diversity and inclusiveness strategic initiatives designed to create an inclusive

environment for all faculty, staff, and students. The candidate is expected to support diversity and inclusiveness efforts in the department and college.

The university is located in Tucson, a valley with desert landscape surrounded by mountain ranges. Tucson boasts a warm climate, 350 sunny days per year, with ample opportunities for outdoor activities such as hiking, mountain biking, horseback riding, caving, and rock climbing.

University of California, San Francisco

2021 UCSF Postdoctoral Fellow

The Keiser Lab at UCSF in collaboration with the Discovery Chemistry group at Genentech is looking for highly motivated postdoctoral candidates with a background in machine learning, computational chemistry, chemical informatics, or related fields. The candidate would work to explore chemical space through the lens of machine learning models. The project involves the design and testing of algorithms to map and quantify chemical latent space for use in drug discovery. The postdoc's primary appointment would be at UCSF but they will be closely integrated with Genentech collaborators.

Qualifications

Python expertise required. PyTorch experience preferred. Desired, but not strictly required, skills include experience with pandas, sklearn, dask, slurm, and GPU clusters. Expertise with massive and/or distributed dataset analysis is a plus. Computational chemistry, drug discovery, medicinal chemistry, or demonstrably related domain expertise is also required.

A productive track record with at least one first-author publication is required. We seek a driven individual who will hit the ground running, lead her/his research independently, and communicate frequently and clearly to the field and industry partners.

Environment

Just north of Silicon Valley, the Keiser lab's location at UCSF Mission Bay directly adjoins SoMa district and the heart of SF's tech and artificial intelligence startup scene. Our collaborators at the nearby Genentech South San Francisco campus are committed to discover effective medicines for unmet medical needs through the application of state-of-the-art drug discovery technologies.

How to apply

Interested candidates should submit a CV and arrange that three letters of reference be sent directly to *apply@keiserlab.org*. Please reference "***postdoc-dnn-ucsf-genentech-CRA***".

University of Central Arkansas

Assistant Professor of Cybersecurity

The Department of Computer Science at the University of Central Arkansas is seeking candidates for a tenure-track Assistant Professor in Cybersecurity beginning in August 2021. Currently, the department has 15 full-time faculty and offers BS programs in Computer Science (accredited by the ABET CAC), Computer Engineering, and Cybersecurity as well as an MS program in Computer Science.

A doctorate in Computer Science, Computer Engineering, Electrical Engineering, or a related discipline with a focus on Cybersecurity is required by the start date of the position, but candidates nearing completion will also be considered. Candidates specializing in applications of Artificial Intelligence, Machine Learning, or Data Mining in Cybersecurity who can collaborate with department faculty are particularly encouraged to apply. The successful candidate will teach in our student-centered undergraduate and graduate programs as well as engage in research and professional service.

Applicants should submit a cover letter, a curriculum vitae, statements of teaching and research, and the contact information for at least three references via *https://jobs.uca.edu/postings/7159*.

Review of applications will begin on January 28, 2021, and will continue until the position is filled. For questions, contact the department chair at *ecelebi@uca.edu*.

Additional information about the department is available at *https://uca.edu/computerscience*.

UCA is an EO/AA Employer.

University of Central Florida (UCF)

Department of Electrical & Computer Engineering (ECE)

Assistant Professor and Visiting Assistant Professor

The Department of Electrical and Computer Engineering at the University of Central Florida seeks exceptional candidates for two faculty openings in the area of Computer Engineering. The first opening is at the rank of Assistant Professor (tenure-track). The second opening is for a Visiting Assistant Professor position. All emerging and traditional areas of Computer Engineering (CpE) are considered. Of special interests are candidates in the following areas: 1) AI and Big Data Computational Systems; 2) Computer Architecture; 3) IoT, Cloud and Cyber-physical Systems; and 4) Secure Computing Systems. Visiting Professors will be expected to teach in fundamental CpE areas such as Computer Organization/Architecture, Computer Networks, and Embedded Systems.

All applicants must have a Ph.D. in an area appropriate to the ECE disciplines by the start of the appointment and a strong commitment to academic activities, including teaching, scholarly publications and sponsored research. Successful candidates will have an exceptional record of scholarly research.

ECE has strong educational programs, with over 400 graduate students and 1,200 undergraduates, and state-of-the-art facilities, the L3Harris Engineering Center and Interdisciplinary Research 1 Building. The department has highly competitive research programs funded by ARO, DARPA, Department of Defense, Department of Energy, L3Harris, Intel, Lockheed Martin, National Science Foundation, NASA, Siemens, Texas Instruments and local high-tech start-ups.

UCF offers a competitive salary and start-up package as well as generous benefits. New faculty members will have graduate student support and significantly reduced teaching loads during their first two years of tenure-track employment.

Located in Orlando, UCF and ECE are at the center of Florida High Tech Corridor with an excellent industrial base in telecommunications, energy, computer systems, semiconductors, defense, space, laser, simulation, software and the world-renowned entertainment/theme park industry. Exceptional weather, easy access to the seashore, one of the largest convention centers in the nation and an international airport ranked among the world's best are just a few features that make the UCF/Orlando area ideal.

UCF is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

Please send any inquiries to *ECE-FacultySearch@cecs.ucf.edu*. To submit your application, utilize the links below:

Assistant Professor: *http://jobs.ucf.edu/cw/en-us/job/499576?lApplicationSubSourceID=*

Visiting Assistant Professor: *http://jobs.ucf.edu/cw/en-us/job/499577?lApplicationSubSourceID=*

University Of Delaware

Department Of Computer and Information Sciences

Chair

The University of Delaware (UD) seeks candidates who are highly accomplished and visionary leaders for the position of Chair of the Department of Computer and Information Sciences. The Department has active undergraduate and graduate programs and a diverse, vibrant research and teaching portfolio led by 33 faculty and instructors. In addition to leading the Department, the new Chair will have ample opportunities to engage with many university initiatives, including the Fintech Initiative, Data Science Institute, Cybersecurity Initiative, Delaware Biotechnology Institute, Center for Bioinformatics & Computational Biology, and Institute for Financial Services Analytics.

The Department is one of seven in the College of Engineering, the College with the most active research programs at the University of Delaware. UD is a Land Grant, Sea Grant and Space Grant institution classified by the Carnegie Foundation for the Advancement of Teaching as having very high research activity. The picturesque campus is located between Washington D.C.

and New York City, in proximity to both Philadelphia and Baltimore. The University enrolls approximately 19,000 undergraduates and 4,000 graduate students and plans for significant new faculty hires and growth in graduate programs and enrollment. With over 25% women faculty, the Computer and Information Sciences department is noted for its commitment to diversity, collegiality, and academic excellence. As a recipient of an NSF ADVANCE award, UD is dedicated to broadening participation in higher education and supports work-life balance through an array of family friendly policies, including dual career.

Applicant Instructions

Applicants should submit PDF files, including a complete CV and a statement of interest, with emphasis, where possible, on visionary leadership, research, education, and administrative experience, at *https://careers.udel.edu/cw/enus/job/496199*. Questions may be addressed to the search committee co-chairs, Professor Cathy Wu at *wuc@udel.edu* and Professor Norman Wagner, at *wagnernj@udel.edu*.

Review of applications will begin on January 3, 2021, and will continue on a rolling basis until the position is filled. All possible discretion will be exercised to maintain the privacy of applicants through the search process. Final interviews may include limited in-person interviews.

Equal Employment Opportunity

The University of Delaware (UD) is an equal opportunity/affirmative action employer and Title IX institution. UD recognizes and values the importance of diversity and inclusion in enriching the employment experience of its employees and in supporting the academic mission. The University is committed to attracting and retaining employees with varying identities and backgrounds, and this is a primary goal for our department. We provide equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. For the University's complete non-discrimination statement, please visit *www.udel.edu/aboutus/legalnotices.html*. The University of Delaware is an Equal Opportunity Employer which encourages applications from Minority Group Members, Women, Individuals with Disabilities and Veterans. The University's Notice of Non-Discrimination can be seen at: *www.udel.edu/aboutus/legalnotices.html*

University of Georgia

Franklin College of Arts & Sciences

Department of Computer Science

Assistant Professor Position with Emphasis on Data Science

The Department of Computer Science at the University of Georgia invites applications for a tenure-track Assistant Professor position starting August 2021. Applicants should hold a Ph.D. in Computer Science or a related field at the time of appointment. The ideal candidate for this position will have a strong research background in Data Science and Machine learning and be committed to excellence in both research and teaching.

Computer Science is a growing and congenial department of 33 faculty within the Franklin College of Arts and Sciences. The department has more than 1,150 undergraduate students, more than 170 graduate students, and offers the B.S., M.S., and Ph.D. degrees in Computer Science, as well as a B.S. degree in Data Science and an M.S. degree in Cybersecurity and Privacy. The teaching load allows for substantial concentration on research. In addition to the areas in which we are recruiting, our faculty cover a broad range of research interests, including algorithms, artificial intelligence, bioinformatics, brain imaging and mapping, computer security, computational science and high-performance computing, computer vision, data privacy, distributed and real-time systems, machine learning, parallel and distributed computing, robotics, simulation, and semantic web. Please see *http://www.cs.uga.edu* for more information about the department and the university.

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

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

The University of Georgia (UGA), a land-grant and sea-grant university with statewide commitments and responsibilities, is the state's oldest, most comprehensive, and most diversified institution of higher education (*http://www.uga.edu*). UGA is currently ranked among the top 20 public universities in U.S. News & World Report. The university's main campus is located in Athens, approximately 65 miles northeast of Atlanta, with extended campuses in Atlanta, Griffin, Gwinnett, and Tifton. UGA was founded in 1785 by the Georgia General Assembly as the first state-chartered university in the country. UGA employs approximately 3,119 full-time faculty and more than 7,700 full-time staff. The University's enrollment exceeds 38,900 students, including over 29,800 undergraduates and over 9,000 graduate and professional students. Academic programs reside in 17 schools and colleges, as well as a medical partnership with Augusta University housed on the UGA Health Sciences Campus in Athens.

To apply, please go to *https://www.ugajobsearch.com/postings/179799*.

Please upload a cover letter, curriculum vitae, short statements of research interests, and teaching philosophy. Please provide contact information (email and telephone number) for three references. Review of applications will begin on February 01, 2020 and will continue until the position is filled.

University of Georgia

Lecturer in Computer Science

The Department of Computer Science at the University of Georgia invites applications for two full-time, non-tenure track Lecturer positions starting August 2021.

For more details and application information, please see *https://cs.uga.edu/news/stories/2020/hiring-two-lecturer-positions-computer-science*.

To apply, please go to *https://www.ugajobsearch.com/postings/179828*

Review of candidates will begin on February 01, 2021 and will continue until the position is filled.

Please see *http://www.cs.uga.edu* for more information about the job.

University of Georgia

Postdoc Research Associate on IoT/CPS Time-Series Data Analytics

The University of Georgia is searching for a Post-Doctoral Research Associate on IoT Time-series Data Analytics research.

Please find details at *https://www.ugajobsearch.com/postings/174633* **or email** *wsong@uga.edu* **to apply.**

University of Kentucky

Assistant Professor in Biostatistics and Bioinformatics

The University of Kentucky Markey Cancer Center seeks candidates for a tenure-track faculty position at the level of Assistant Professor with strong background in bioinformatics, such as statistical and computational methods for single cell sequencing, immuno-oncology, circular RNA profiling, microbiome, metabolomics and 'omics integration.

For a detailed description of the position and to apply, please visit the search site here: *https://ukjobs.uky.edu/postings/307521*

University of Manitoba Winnipeg

Manitoba, Canada

Department of Computer Science
Faculty of Science

Assistant Professor, Associate Professor or Professor in Computer Science Position # 29563

The Department of Computer Science invites applications for a full-time tenured or tenure- track position at the Professor, Associate Professor or Assistant Professor rank, commencing July 1, 2021, or on a date mutually agreed upon. The Department seeks an emerging scholar with a commitment to excellence in teaching and research. Exceptional candidates at any level will also be considered. Outstanding candidates in any area of Computer Science will be considered, but we are

particularly interested in candidates with expertise in Data Science, Computer Systems or Software Engineering. The successful candidate will have a Ph.D. and preferably post-doctoral or other distinguishing experiences in Computer Science or a related field. Duties will include undergraduate teaching, graduate teaching and supervision, research, including the continuation or establishment of an externally funded research program, and service-related activities. The successful candidate will have a track record of high quality scholarly research leading to peer assessed publications; will either have, or demonstrate the potential to establish, an independent, innovative, scholarly, externally fundable research program; will have demonstrated strength in or strong potential for outstanding teaching contributions; and will exhibit evidence of the ability to work in a collaborative environment. Salary and rank will be commensurate with experience and qualifications.

More information at: *https://viprecprod.ad.umanitoba.ca/default.aspx*.

University of Maryland, Baltimore County (UMBC)

Open Rank Tenure-Track Faculty Position in the Department of Information Systems,

The Department of Information Systems (IS) at UMBC invites applications for an open rank tenure-track faculty position starting August 2021. Successful candidates will complement and extend our current strengths. More information about research interests of our faculty can be found at *https://informationsystems.umbc.edu/home/research/areas-of-research/*. Candidates with research interests cross-cutting multiple areas are particularly encouraged to apply. Candidates must have earned a PhD in related fields no later than August 2021.

The Department has 33 full-time faculty and over 1,600 students, including over 80 PhD students. The department offers undergraduate degrees in Information Systems and Business Technology Administration. Graduate degree programs, MS and PhD, are offered in both Information Systems and Human-Centered Computing, including an innovative online MS program in IS. In addition, the Department houses the Master's in Health Information Technology, which is a professional degree program. Our faculty are actively engaged in collaborative interdisciplinary research within and across departments and institutions, and four of our current faculty have received NSF CAREER awards. Further details can be found at *https://informationsystems.umbc.edu/*.

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UMBC is a public research university that is leading the world in inclusive excellence in research and teaching. We are redefining how to teach and we are one of the most innovative universities in the nation (US News). To continue to support this goal, the Faculty Development Center provides excellent support such as classroom observation, collection and analysis of student feedback as well as regular workshops and pedagogical demonstrations. Our research is bold, cross disciplinary, and leverages our location near to the hospitals in Baltimore, NIH, NASA, NSF, and the USGS. UMBC's strategic location in the Baltimore-Washington corridor puts us close to many high-tech companies as well. The

2018 Chronicle of Higher Education also named UMBC as one of the best colleges to work for, for the ninth year in a row. The department, college and UMBC are deeply committed to the success of all of our faculty. We have various mentoring programs such as "launch committees" to offer regular and structured mentorship for faculty to develop a thriving and successful research program and the Eminent Scholar mentoring program to build relationships with leaders in the field beyond UMBC. The campus is close to both energetic urban centers and family-friendly suburbs. Nearby cities such as Columbia and Ellicott City have been routinely ranked as top 10 best places to live in the US.

Candidates are expected to establish a collaborative, externally funded, and nationally recognized research program and contribute to teaching a variety of graduate and undergraduate courses offered by the department effectively. We expect candidates to be innovative in terms of pedagogical methods, course content, and curriculum development, and be committed to advising, mentoring and supporting student success. All candidates should have experience in – or have the potential for – building an equitable and diverse scholarly environment in teaching, mentoring, research, life experiences, or service. Candidates for the Associate and Full Professor rank should also demonstrate a track record of inclusive excellence. Candidates for the Associate Professor rank should also have a strong record of research, teaching, service, and a sustained externally-funded research program. Candidates for the Full Professor rank should also demonstrate leadership in their field, hold an excellent academic record, and show a history of securing external funds for multiple sizable research projects. We are particularly interested in receiving applications from individuals who are members of groups that historically have been under-represented in the professoriate.

We especially welcome applications from candidates who are willing to contribute to the diversity mission of the university and the department. UMBC is a national model for diversity and inclusive excellence in STEM. Examples of these are our Meyerhoff Scholar programs (***http://meyerhoff.umbc.edu/***), the Center for Women in Technology (***http://cwit.umbc.edu***), and PROMISE: Maryland's AGEP and LSAMP Bridge to the Doctorate programs. Inclusive excellence is a hallmark of UMBC and a foundational value of our community. UMBC is the nation's #1 producer of African American undergraduates who go on to complete an M.D./Ph.D. and #2 nationally for African American undergraduates who complete a STEM Ph.D.

The IS department is proud to support a diverse student and faculty body in terms of gender, race, and ethnicity. The IS faculty has a culture of inclusiveness of excellence, demonstrated by both academic research such as community engaged scholarship, research on improving accessibility of technology to disabled, as well as efforts to address diversity issues in STEM such as CWIT scholar program and starting a regional chapter of Women in Data Science and Machine Learning. More than half of the leadership positions in the department including the chair are currently held by women faculty.

Applications for the positions must be submitted as PDF files via Interfolio at ***https://apply.interfolio.com/81030***. Review of applications will start in December 2020 but will continue until positions are filled. All interviews will be conducted online but applicants are welcome to talk to IS faculty to learn about Baltimore and the surrounding area.

A complete submission will consist of:

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

Candidates' experience will be evaluated commensurate to the rank to which they are applying. For inquiries, please email to ***is_faculty_search_2020@umbc.edu***. An informational webinar will be also held in late November or early December. If you are interested in the webinar, please register at ***https://forms.gle/CmugCMfPdnPRoT386***. Review of applications will begin in December, 2020 and will continue until the position is

filled. For best consideration, please apply by January 15, 2021.

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

As an institution that receives federal financial assistance, UMBC adheres to Title IX and does not discriminate on the basis of sex. For more information about Title IX and contact information for Title IX Coordinator click here.

University of Maryland College Park

Assistant Professor, Associate Professor or Full Professor Department of Computer Science - Position #126013

The Department of Computer Science at the University of Maryland, College Park, MD, USA is recruiting to fill multiple faculty positions, with starting dates on or after July 1, 2021. The openings are not restricted to any rank and outstanding candidates at all levels are encouraged to apply. Successful applicants will also be considered for joint appointments with the University of Maryland Institute for Advanced Computer Studies (UMIACS), a multi- disciplinary research institute.

Exceptional candidates in *all* areas of computer science, including but not limited to Artificial Intelligence, Computer Vision, Cybersecurity, Data Sciences, Human-Computer Interaction, Machine Learning, Programming Languages, Software Engineering, Immersive Media including Computer Graphics, AR and VR, etc. are being sought. Applicants working at the boundary of computer science and related disciplines, including Computational Linguistics and Natural Language Processing, Quantum Computing, Robotics, and Scientific Computing are also encouraged to apply, and may be considered for joint positions with other departments or institutes on campus. A candidate should indicate in their cover letter if they might be interested in such a joint appointment.

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

Interested candidates should apply on-line at ***https://ejobs.umd.edu*** in order to receive consideration. Search under Faculty for position #126013. Applicants are strongly encouraged to have complete versions of their materials – including a cover letter, a *curriculum vitae*, research and teaching statements, and recommendation letters from at least four references – uploaded by December 31, 2020. Applications are accepted until all positions are filled. Candidates will be prompted when submitting their application to submit all information for their references. Questions can be directed to the faculty recruitment committee at: ***faculty-search@cs.umd.edu***.

The Department of Computer Science at the University of Maryland is consistently ranked among the top-15 nationally. It is one of the largest departments in the country, with approximately 55 full-time tenured and tenure-track faculty covering a wide variety of research areas and over 295 doctoral students drawn from top undergraduate programs nationally and internationally. In 2019, the department moved into its new state-of-the-art facility, the Brendan Iribe Center for Computer Science and Engineering. Additional information about the Department of Computer Science and UMIACS is available at ***http://www.cs.umd.edu*** and at ***http://www.umiacs.umd.edu***. To learn more about the Iribe Center, please visit: ***https://iribe.umd.edu/***.

The University of Maryland, College Park, was founded in 1856 and is the flagship institution in the University System of Maryland. Its 1,250-acre College Park campus is minutes away from Washington, D.C., the nexus of the nation's legislative, executive, and judicial centers. This unique proximity to business and technology leaders, federal departments and agencies, three international airports, 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 Maryland

Lecturer and Curriculum Innovation Lead

The University of Maryland is partnering with Break Through Tech (BTT), a national initiative at the intersection of academia and industry, with the goal of propelling more women and underrepresented communities into technology education and careers to achieve gender equality in tech. This partnership will be housed in the Iribe Initiative for Inclusion and Diversity in Computing within the Department of Computer Science, supporting both Computer Science (CMSC) and the College of Information Studies (iSchool).

This position will support the curriculum innovation efforts across the BTT program as well as additional CMSC courses each semester. The position supports curriculum innovation and development across four core areas of the initiative: Summer guild, new intro to computing course, faculty and staff innovation training, and curriculum grants.

Responsibilities:

- Support the launch and curriculum development of a two Summer Guild in August 2021. The program will highlight six real-world projects around different intersections of computing.
- Support the development of an introduction to computing course that addresses the breadth of computing both in content and in possible career goals will be a joint priority between the iSchool and CMSC. This course will comprise 1/3 computing skills development, 1/3 societal impacts and career applications, and 1/3 larger concept computing content.
- The course development will take place over the summer of 2021 with the first sections offered in fall 2021.
- Coordinate annual faculty development training on inclusive pedagogy and best practices as part of the iSchool and CMNS.
- Coordinate the administration of mini innovation grants to faculty members to encourage curricular changes including modifying our introductory course sequences in both units, making courses more inclusive, and creating and centralizing additional Computing+X content to tie computing to other disciplines.
- Function as an integral part of the team within the campus and national initiative as well as the Department of Computer Science and the iSchool.
- Teach the new introduction to computing course.
- Teach one additional section of a CMSC course in Fall, Spring and Summer.
- Leverage university curriculum development resources in order to diversify the curriculum for UMD undergraduate computing courses.
- Ensures alignment of objectives with Break Through Tech National, UMD, and all other critical stakeholders.

Minimum Qualifications: An M.S. degree in computer science, information science, education or related field. This candidate should have experience with curriculum innovation through a computing lens. The candidate must be able to both work independently and as a member of interdisciplinary teams. The applicant must have proficient analytical, writing, verbal, organizational, and computer skills and an ability to work well with students, campus partners, parents, and external relations. Candidates must have strong knowledge of collaboration tools (Google Drive, Box) and proficiency in other communication and office software. The candidate must have a passion for developing mission-driven strategies and commitment to gender equity. The candidate must be committed to working with diverse student and community populations. A Ph.D. is one of the related fields is preferred. Also preferred is experience leading innovation efforts for large scale computing courses.

Application Process: Interested candidates should apply on-line at ***https://ejobs.umd.edu*** in order to receive consideration. Search under Faculty position #34111421. Applicants are strongly encouraged to have complete versions of their materials – including a CV, a statement of teaching

philosophy, a list of references, a listing of recently taught courses and evidence of teaching effectiveness (e.g., teaching evaluations, teaching awards) uploaded as supplemental document 1, and a cover letter highlighting the specific strengths of the candidate with respect to this position – uploaded by February 19, 2021. For any information or questions please email *instructor-search@cs.umd.edu*.

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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, three international airports, and a myriad of research organizations, embassies, think tanks, cultural centers, and non-profit organizations offers unique opportunities for engagement for faculty and students.

University of Nebraska-Lincoln

Assistant, Associate, Full Professor

The Department of Computer Science and Engineering (CSE) at the University of Nebraska–Lincoln invites applications for six tenured/tenure-track faculty positions at all ranks (Assistant/Associate/Full Professor) to begin Fall 2021. A complete list of open positions may be found at *https://cse.unl.edu/facultysearch*.

We seek candidates who can establish a strong scholarly research and teaching program while complementing the Department's expertise in Internet of Things (IoT), Robotics, and wireless connectivity with a specific focus on: (i) Agricultural IoT and Robotics, (ii) Agricultural Sensing and IoT Systems, (iii) Agricultural IoT and Real-Time Power Science, (iv) Next-Generation Wireless, (v) Wireless Network Architectures, and (vi) Hardware System Security and Privacy.

Promising candidates with interests in one of these areas are strongly encouraged to apply to all of the applicable positions.

CSE is undergoing an exciting period of significant growth. The department has hired 11 tenured/tenure-track faculty in the last five years, including 5 in 2019-2020, with plans to continue expansion in the near future.

UNL is Nebraska's land-grant research university and ranks among Doctoral Universities with the Highest Research Activity [Carnegie CIHE]. The University of Nebraska-Lincoln is centered in the flourishing community of Lincoln, the third largest city in the Big Ten. More information on Lincoln can be found here: *https://www.unl.edu/lincoln/about-lincoln*, *https://placetobelnk.com/*, and *https://www.lcoc.com/meet-lincoln*.

Review of applications will begin on December 15, 2020. We will continue to review applications until the positions have been filled. Interested applicants are encouraged to continue to apply after this deadline.

To view open positions and to apply, complete the Faculty/Administration application at *https://go.unl.edu/xh4b*. Each candidate must have prepared 1) a single-page cover letter explaining your interest in the University of Nebraska-Lincoln; 2) a curriculum vitae; 3) teaching, research and diversity statements; and 4) a list of at least three references. Please combine all statements into a single pdf document and attach as "Other Document." Applicants are strongly encouraged to review the rubrics used by our search committees to evaluate candidate statements: *https://engineering.unl.edu/candidate-statements*. After review of applications begins, those with any missing required statements may not be given full consideration. Direct questions to Search Chairs Dr. Brittany Duncan at *bduncan@cse.unl.edu* (Positions i-iii) and Professor Mehmet Can Vuran at *mcv@unl.edu* (Positions iv-vi).

As an EO/AA employer, qualified applicants are considered for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation,

gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See *http://www.unl.edu/equity/notice-nondiscrimination*.

University of North Carolina at Charlotte

Tenure-Track Assistant Professor or Tenured Associate/Full Professor Position

The Department of Software and Information Systems (SIS) at the College of Computing and Informatics (CCI) at UNC Charlotte is seeking applicants for a tenure-track Assistant Professor or tenured Associate/Full Professor position. Priority is given to applicants focused on cybersecurity, cyber analytics, and security of AI models. Strong candidates in all other areas of cybersecurity and privacy including social media security, social system security like the election system security, are also considered.

Applicants must have a Ph.D. in Computer Science, Information Technology, Informatics, or a related field, as well as a strong commitment to research and teaching. Applicants should have demonstrated achievement in original research and scholarship, demonstrated commitment to quality teaching with prior experience or potential at the undergraduate and graduate levels, as well as demonstrated ability to contribute to diversity initiatives.

Applications must be submitted online at *https://jobs.uncc.edu/* (Position Number: 006285).

The application package should include: 1) Cover Letter / Letter of Interest, 2) Curriculum Vitae, 3) Contact information for three references, 4) Research Statement, 5) Teaching Statement, and 6) Copies of three representative scholarly publications. Applicants are also required to submit a Diversity Statement to address past and/or potential contributions to diversity, equity and inclusion. For questions or additional information, please email Dr. Xi (Sunshine) Niu, the Search Committee Chair, at *xniu2@uncc.edu*.

Review of applications will begin on 1/2/2021 and continue until the position is filled.

EOE

University of North Carolina at Charlotte

Faculty Position

We seek candidates in all areas of Computer Science for an open-rank tenure-track position. Areas of particular interest include: Foundations of Computing (quantum computing, combinatorial and continuous optimization), and Artificial Intelligence (explainable AI, human-AI collaboration, machine learning, robotics, and computer vision).

The anticipated start date is Fall 2021. A detailed description of the position and the application process are available at *https://jobs.uncc.edu/postings/33312* (Position No. 001955). UNC Charlotte is North Carolina's urban research university. The Department, home to over 2,000 students in B.S., M.S., and Ph.D. programs, seeks innovative, collegial candidates, who are committed to diversity, accessibility, and inclusion.

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

The University of North Texas

Department of Computer Science and Engineering

Clinical Assistant/Associate Professor

The University of North Texas (UNT), a Tier 1 Research Institution (Carnegie Classification as a Doctoral University: Highest Research Activity), invites applications for three non-tenure track faculty positions in the Department of Computer Science and Engineering (CSE) starting Fall 2021. One position is in the area of Artificial Intelligence while the remaining two positions are in the core area of Computer Science and Engineering.

Clinical Assistant/Associate Professor will teach undergraduate and graduate level Computer Science and Engineering courses ranging from introductory and foundational level to more advanced and specialized topics. Additional expectations include curriculum development, participating in departmental activities, and providing career guidance to graduate and undergraduate students.

Minimum qualifications include a Ph.D. in computer science or a closely related field, with a strong preference for evidence of teaching experience.

The Computer Science and Engineering department is home to 9 Professors, 11 Associate Professors, 7 Assistant Professors, 5 Lecturers, over 100 Ph.D. students, over 180 master students, and over 1300 bachelor students. We offer a Ph.D. degree in Computer Science and Engineering, M. S. degrees in Artificial Intelligence, Computer Engineering, Computer Science, Cybersecurity and Data Engineering, ABET-accredited B. S. degrees in Computer Science and Computer Engineering, an ABET-accredited B. A. degree in Information Technology, and a new B. S. degree in Cybersecurity. Additional information about the department is available at the website: computerscience.engineering.unt.edu.

Application Procedure:

All applicants must apply online at the following links and may direct any questions to Dr. Pradhumna Shrestha (*pradhumna.shrestha@unt.edu*).

Artificial Intelligence: *http://jobs.untsystem.edu/postings/40524*

Computer Science and Engineering: *http://jobs.untsystem.edu/postings/40525*

Computer Science and Engineering: *http://jobs.untsystem.edu/postings/40526*

The committee will begin its review of applications immediately, and continue to accept and review applications until the position is filled.

The University:

UNT is the nation's 33rd largest public university and the largest, most comprehensive in the Dallas-Fort Worth area, one of the fastest growing metropolitan areas of ~7 million people, ever-increasing industrial and business activities. The vibrant UNT College of Engineering has more than 100 faculty members. The college's faculty also boasts two National Academy memberships and more than 20 faculty fellowships across more than 15 societies. The college has hired 9 tenure and tenure track faculty this year and plans to further expand the college faculty.

University of North Texas

Assistant/Associate Professor of Computer Science

The University of North Texas, a Carnegie R1 Research Institution, invites applications for the following Assistant/Associate tenure track faculty position in the Department of Computer Science and Engineering (CSE) starting Fall 2021. Candidates for this position are expected to develop a strong research program funded by external sources, support and mentor graduate students, teach CSE graduate and undergraduate courses, and provide service to the University and the profession.

The College of Engineering has established college-wide priorities for the areas of Artificial Intelligence, Autonomous Vehicles, Advanced Manufacturing, Sensor Systems, and Health Sciences. The CSE department's strengths include Algorithms and Computational Science, Artificial Intelligence and Data Science, Computer Systems and Networking, Cybersecurity, and Software Engineering. Candidates in the areas of Algorithms, Operating Systems, and Artificial Intelligence who can contribute to one or more of the department's existing strengths and/or college priority areas are especially encouraged to apply. Outstanding candidates who can contribute to one or more of the department's existing strengths will also be considered.

The Computer Science and Engineering department is home to 9 Professors, 11 Associate Professors, 7 Assistant Professors, 5 Lecturers, over 100 Ph.D. students, over 180 master students, and over 1300 bachelor students. We offer a Ph.D. degree in Computer Science and Engineering, M. S. degrees in Artificial Intelligence, Computer Engineering, Computer Science, Cybersecurity, and Data Engineering, ABET-accredited B. S. degrees in Computer Science and Computer Engineering, an ABET-accredited B. A. degree in Information Technology, and a new B. S. degree in Cybersecurity. Additional information about the department is available at the website: *computerscience.engineering.unt.edu*.

Application Procedure:

All applicants must apply online at *http://jobs.untsystem.edu/postings/40563*

The committee will begin its review of applications immediately, and continue to

accept and review applications until the position is filled.

The University:

UNT is the largest, most comprehensive university in the Dallas-Fort Worth area, the fourth-largest metro area in the United States and one of the fastest growing metropolitan areas with ever-increasing industrial and business activities and a reasonable cost of living. The vibrant UNT College of Engineering, located in the 590,000 square foot main building on the 300 acre Discovery Park campus in Denton, TX, has more than 100 faculty members. The college has hired 9 tenure and tenure track faculty this year and has a goal to expand the college faculty by 50% in the next 5 years.

University of Oklahoma

Tenured/Tenure-Track Faculty Positions in High Performance Computing and Cybersecurity

The School of Computer Science in the Gallogly College of Engineering at the University of Oklahoma (OU) is seeking applications for two tenured/tenure-track faculty positions:

1) **HPC:** Tenured/tenure-track faculty position in high-performance computing (HPC) emphasizes meteorological applications, including but not limited to numerical modeling of weather and climate focused on seasonal-to-sub-seasonal predictions, modeling, and satellite-data mining, and remote sensing, retrieval, and optimization. *https://apply.interfolio.com/81340*

2) **Cybersecurity:** Tenured/tenure-track faculty position with demonstrated research skills in one or more cybersecurity areas to work at our University's Schusterman Center in Tulsa, Oklahoma. More specifically, we are looking for candidates with research experience in cybersecurity at the associate or full professor level. This position is a leadership position and will have an additional role as an Associate Director who will lead our program's ongoing expansion at OU's campus in Tulsa, Oklahoma. *https://apply.interfolio.com/80855*

For both the positions above, we seek candidates whose research, teaching, and service have prepared them to be integral contributors to the advancement of our inclusive and diverse communities.

The HPC position is a joint position between the School of Computer Science and the School of Meteorology, located at the University's Norman Campus. Candidates for the HPC position must hold a Ph.D. in Computer Science or a related field, effectively teach computer science courses at all levels, and advise M.S. and Ph.D. students. We will consider appointments at all ranks as appropriate to the qualifications of the applicant. More senior positions require concomitant levels of experience beyond the doctorate.

The Cybersecurity position is exclusive to the School of Computer Science. Candidates for this position must hold a Ph.D. degree in Computer Science or related fields, teach courses at all levels, and advise M.S. and Ph.D. students in Computer Science. More senior appointments require appropriate levels of experience beyond the doctorate.

As Colleges within the University, we join the University's commitment to achieving a diverse, equitable, and inclusive university community by embracing each person's unique contributions, background, and perspectives. The University recognizes that fostering an inclusive environment for all, with particular attention to the needs of historically marginalized populations, is vital to the pursuit of excellence in all aspects of our institutional mission. This enhances the OU experience for all students, faculty, staff, and the communities we regularly engage with. Thus, we seek candidates who contribute to fostering an inclusive culture in all aspects of faculty responsibility, including the classroom, the academic community, and their professional commitments.

The University of Oklahoma (OU) is a Carnegie-R1 comprehensive public research university known for excellence in teaching, research, and community engagement, serving the educational, cultural, economic, and health-care needs of the state, region, and nation from three campuses: Norman, Health Sciences Center in Oklahoma City and the Schusterman Center in Tulsa. OU enrolls over 30,000 students and has more than 2700 full-time faculty members in 21 colleges. In Fall 2019, approximately 23% of OU's freshmen were first-generation students, 33% of all students belonged to a minority race/ethnicity, and 6% were international.

The University of Oklahoma does not discriminate based on race, color, national

origin, sex, sexual orientation, genetic information, gender identity, gender expression, age, religion, disability, political beliefs, or status as a veteran in any of its policies, practices, or procedures. The University of Oklahoma, recognizing its obligation to guarantee equal opportunity to all persons in all segments of University life, reaffirms its commitment to the continuation and expansion of positive programs that reinforce and strengthen its affirmative action policies. This commitment stems from a desire to ensure social justice and promote campus diversity. Our commitment to the concept of affirmative action requires sincere and cooperative efforts throughout all levels of our employment structure. We will continue to strive to reach the goals of fair and equal employment opportunities for all.

Application Materials Requested:
To apply, please submit the following materials to *https://apply.interfolio.com/81340* (HPC Position) or *https://apply.interfolio.com/80855* (Cybersecurity Position) 1) a letter of interest, 2) curriculum vitae, 3) a list of three people who can serve as references (with full mailing and e-mail addresses and telephone numbers), 4) brief (~2-3 pages each) statements of research, teaching, and diversity, equity, and inclusion, and 5) 2-3 papers that best represent research contributions and scholarship. The research statement should summarize your prior contributions to research and your goals for developing a research program at OU. The teaching statement should summarize past instructional and mentorship experiences, your pedagogical philosophy, plans/goals for teaching at OU (including existing and proposed courses), and advise a diverse cohort of undergraduate and graduate students. The DEI statement should summarize your understanding and experience working with diverse communities and outline plans for contributing to diversity, equity, and inclusion efforts through research, teaching, and service.

Professor Sridhar Radhakrishnan, Director of the School of Computer Science and chair of the search committee, would be happy to answer any questions you may have about our organization's position at *sridhar@ou.edu*. We will begin processing applications starting February 1, 2021.

University of Oxford

Associate Professorship (TF) of Computer Science (Artificial Intelligence)

Department of Computer Science, Wolfson Building, Parks Road, Oxford

Salary from: £48,114 p.a. (plus benefits including additional pensionable benefits including college housing allowance of £13, 237 p.a. and access to an equity sharing scheme. A responsibility allowance of £1,554 p.a. and a health insurance scheme for the post holder with access for family members is also available. (An Allowance of £2804 p.a. would be payable upon award of Full Professor title).

Applications are invited for this post based in the Department of Computer Science and Jesus College, to start no later than 1 October 2021. You will also be appointed as a Fellow and Tutor in Computer Science at Jesus College; Tutors being responsible for the organisation and teaching of their subject within the College.

You will be a member of both the University and the college community; part of a lively and intellectually stimulating research community with access to the excellent research facilities which Oxford offers. You will have a role to play in the running of the College as a member of the Governing Body and a trustee of the College as a charity.

Holding a doctoral degree in Computer Science (or cognate discipline), having the ability to teach across a range of Computer Science subjects, and also having a proven research record of high quality at international level in the area of Artificial Intelligence, and experience of research collaborations at both national and international level.

The Department is a vibrant, growing academic department, which has a research profile across the entire spectrum of contemporary computer science. The department has manifest strengths across the whole spectrum of AI, from classic symbolic approaches, knowledge representation, search, and constraints, through human-centred AI, to deep learning, reinforcement learning, game theoretic approaches, and the theoretical foundations of ML. You will be expected to secure research funding, engage in the management of research projects, and disseminate research of the highest international standard through journals, conferences and seminars, and will be expected to teach on the department's undergraduate and/or postgraduate courses.

We are a Stonewall Top 100 Employer, Living Wage and Mindful Employer, holding an Athena Swan Bronze Award, HR excellence in Research and Race Equality Charter Bronze Award. Demonstrating a commitment to provide equality of opportunity, we would particularly welcome applications from women and black and minority ethnic applicants who are currently under-represented within the Computer Science Department.

All applicants will be judged on merit, according to the selection criteria. Our staff and students come from all over the world and we proudly promote a friendly and inclusive culture. Diversity is positively encouraged, through diversity groups and champions, for example *http://www.cs.ox.ac.uk/aboutus/women-cs-oxford/index.html*, as well as a number of family-friendly policies, such as the right to apply for flexible working and support for staff returning from periods of extended absence, for example shared parental leave. We are committed to ensuring an inclusive interview process and will reimburse up to £250 towards any additional care costs (for a dependent child or adult) incurred as a result of attending an interview for this position, which may not be applicable if the interviews are held remotely.

The closing date for applications is 12 noon on 12th February 2021.

Interviews are expected to be held on Tuesday, 16th March 2021.

For further details and to apply please visit:

https://my.corehr.com/pls/uoxrecruit/erq_jobspec_details_form.jobspec?p_id=148289

University of Oxford

Associate Professorship (TF) of Programming Languages

Department of Computer Science, Wolfson Building, Parks Road, Oxford

Salary from: £48,114 p.a. (plus benefits including additional pensionable benefits including college housing allowance of 11,246 p.a. at current rates, or access to joint equity scheme, and private health insurance scheme). (An allowance of £2,804 p.a. would be payable upon award of Full Professor title).

The post is based in the Department of Computer Science and University College, to start before October 2021. You will also be appointed as a Fellow and Tutor in Computer Science at University College. Tutors are responsible for the organisation and teaching of their subject within the College.

You will be a member of both the University and the College community, part of a lively and intellectually stimulating research community with access to the excellent research facilities which Oxford offers. You will play a role in the running of the College as a member of the Governing Body and a trustee of the College as a charity, and have opportunities to interact with academics in other disciplines as part of Oxford's unique collegiate system.

The Department is a vibrant and growing academic department, which has a research profile across the entire spectrum of contemporary computing. You will be expected to engage in independent and original research in the area of Programming Languages, securing funding and engaging in the management of research projects, and disseminate research of the highest international standard through publications, conferences and seminars. You will also contribute to teaching on the Department's highly successful undergraduate and graduate programmes.

You will hold a doctoral degree in Computer Science (or cognate discipline), have the ability to teach across a range of Computer Science subjects, and will also have a proven research record of high quality at international level in the area of Programming Languages, and experience of research collaborations at both national and international level.

We are a Stonewall Top 100 Employer, Living Wage and Mindful Employer, holding an Athena Swan Bronze Award, HR excellence in Research and Race Equality Charter Bronze Award.

Demonstrating a commitment to provide equality of opportunity, we would particularly welcome applications from women and black and minority ethnic applicants who are currently under-represented within the Computer Science Department. **All applicants will be judged on merit, according to the selection criteria.**

Our staff and students come from all over the world and we proudly promote a friendly and inclusive culture. Diversity is positively encouraged, through diversity groups and champions, for example *http://www.cs.ox.ac.uk/aboutus/women-cs-oxford/index.html*,as well as a number of family- friendly policies, such as the right to apply for flexible working and support for staff returning from periods of extended absence, for example shared parental leave. We are committed to ensuring an inclusive interview process and will reimburse up to £250 towards any additional care costs (for a dependent child or adult) incurred as a result of attending an interview for this position, which may not be applicable if the interviews are held remotely.

The closing date for applications is 12 noon on 15th February 2021 Interviews are expected to be held on 22nd March 2021

Committed to equality and valuing diversity

For further details and to apply please visit: *https://my.corehr.com/pls/uoxrecruit/erq_jobspec_details_form.jobspec?p_id=148288*

University of Pittsburgh

Tenured/Non-tenured Track Assistant Professor

The University of Pittsburgh located on the main campus in Oakland, PA has full-time faculty positions available in the School of Health and Rehabilitation Sciences Department of Health Information Management and Health Informatics, *www.shrs.pitt.edu/him*. The program is accredited by CAHIIM. The Bachelor's Degree Center ranked our program 5th best program in U.S and Healthcare Management Degree Guide recently named Pitt HIM as 7th in the nation.

These positions are available in both the tenure-track and non-tenured track. The department is seeking candidates to expand our educational and research activities in both undergraduate and graduate Health Information Management programs.

Please check the website, *https://www.join.pitt.edu* under requisition 2000475, 2000209, and 20003065 for the complete job summary, qualification requirements, and applicant documents necessary.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity, and diversity, EOE, including disability/vets.

Assistant Professor of Computer Science (Tenure Track)

The Department of Computer Science at University of the Pacific invites applications for a tenure-track position at the rank of Assistant Professor, to start in Fall 2021. Applicants must have a doctorate in Computer Science or closely related discipline. The primary qualification for this position is a strong interest and demonstrable potential for undergraduate education. Candidates should also be prepared to contribute to our graduate program leading to the MS in Computer Science, and to sustain a program of academic research. We will consider applicants from any area of Computer Science. Applicants interested in interdisciplinary fields of study are also encouraged to apply.

For more details & to apply, visit **https://apptrkr.com/2113711**

University of Pittsburgh

School of Computing and Information

Tenure/Tenure-Stream Faculty Positions

University of Pittsburgh School of Computing and Information - Tenure/Tenure-Stream Faculty PositionsAs the University of Pittsburgh's newest school, the School of Computing and Information (SCI) is a growing interdisciplinary community of faculty, staff, and students who are accustomed to progressing through change, thinking beyond boundaries, and innovating new approaches to lead our institution and nation to positive change. Since 2017, SCI has hired twenty-five faculty members, and we are continuing our growth with multiple openings in the tenure stream this year.

We are fostering an equitable and inclusive community with our scholarship, education, and faculty development initiatives, including: policies to promote a healthy work-life balance; programs to meet the needs of two career couples, and a commitment to recruit, retain, and develop a diverse faculty.

SCI's interdisciplinary research and education includes computer science, information science, and library and information science with rich connections to partners in health sciences, medicine, engineering, social sciences, humanities, business, and other areas.

About the Position(s)

We have multiple openings in the tenure and tenure-stream:

- Artificial Intelligence, Internet of Things (Assistant Professor, Department of Computer Science) Position #02001
- Digital Health, Health Technologies, and Health Information Services (Assistant Professor, Department of Information Culture and Data Stewardship) Position #06329
- Human-Centered Information Systems (Assistant Professor, Department of Informatics and Networked Systems) Position #02658
- Technology for Learning and Social Change (Associate/Full Professor) Position #2191
- Quantum Computing and Communications (Assistant Professor) Position #09832

Minimum required qualifications

- Candidates should hold a Ph.D. degree in computer science, information science or some closely related area
- Candidates should hold the PhD degree by September 2021

Application Process

Individuals interested in these openings may apply at the *https://sci.pitt.edu/recruiting*. A completed application includes a cover letter, curriculum vitae, research statement, teaching statement, a statement of commitment to creating a diverse and inclusive community, and the names and contact information for at least three recommenders for applications for positions at the assistant professor level and six recommenders for applications for positions at the associate or full professor level.

Application review will begin immediately and applications will be accepted until positions are filled. We anticipate that interviews will begin in February 2021. The anticipated start date is September 1, 2021. Please refer to recruiting page for preferred qualifications and application deadlines. The anticipated start date is September 1, 2021. Questions about these positions and/or application status should be emailed to *sci-recruit@pitt.edu*.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity, EOE, including disability/vets.

University of Texas at Dallas

Tenure-system position in Computer Science

The Department of Computer Science at The University of Texas at Dallas invites applications from outstanding applicants for a tenure-system position in Computer Science. Candidates in all areas of Computer Science will be considered though the department is particularly interested in areas of virtual/augmented reality, human computer interaction, data science, cyber security, AI, quantum computing, and IoT. Candidates must have a Ph.D. degree in Computer Science, Software Engineering, Computer Engineering or equivalent. The position is open for applicants at the rank of Assistant Professor who must show outstanding promise.

The department offers B.S., M.S., and Ph.D. degrees both in Computer Science and Software Engineering. It also offers degrees in Data Science, Computer Engineering and Telecom Engineering that are jointly administered with other departments. Currently, the department has a total of 51 tenure-system faculty members and 40 full-time faculty of instruction. The department is housed in a spacious 150,000 square feet facility and has excellent computing equipment and support. The department ranks well in various national rankings. In areas such as natural language processing/AI, software engineering and embedded systems, it ranks nationally within top seven on csrankings.org. The department

also houses a number of centers and institutes, particularly in areas of cyber security, human language technology, net centric software, and applied AI and machine learning.

The university is located in the most attractive part of the Dallas metropolitan area. There are over 1,000 high-tech companies within a few miles of the campus, including Texas Instruments, Walmart Labs, AT&T, Fujitsu, Raytheon, Rockwell Collins, Cisco, etc. The DFW metroplex has one of the highest concentrations of high-tech jobs in the nation. Opportunities for joint university-industry research projects are excellent. The department averages approximately $9 million in extramural research funding annually putting it in the 37th rank nationally in the ASEE (2016) survey of research expenditures. The university and the State of Texas are also making considerable investment in commercialization of technology developed in university labs; a start-up business incubation center has been operational since 2011. The CS Department has experienced very rapid growth in recent years. The University and the State of Texas are investing significant resources in the pursuit of excellence.

Applicants should submit a letter of interest, current curriculum vitae that includes a complete publication list, research statement, teaching statement, teaching evaluations (if available), writing sample and the full contact information for at least four academic or professional references via the online application at *http://jobs.utdallas.edu/postings/15236*.

The search committee will begin evaluating applications on February 1, 2021. Applications received on or before February 1, 2021 will get highest preference. All recommendation letters are due by February 15, 2021. For more information, contact Dr. D.T. Huynh, Interim Department Head, via email (*huynh@utdallas.edu*) or send e-mail to *cs-search@utdallas.edu* or view the web page at *http://cs.utdallas.edu*.

The University of Texas at Dallas provides equality of opportunity in education and employment for all students and employees and strongly encourages applications from candidates who would enhance the diversity of the University's faculty and administration.

University of Texas Rio Grande Valley

Assistant Professor of Computer Science

The Department of Computer Science at The University of Texas Rio Grande Valley (UTRGV) invites applications for two Tenure-Track Assistant Professor faculty positions in computer science to begin in Fall 2021.

Please see the full descriptions of the positions at the following links: <*https://careers.utrgv.edu/postings/26239/*> and *https://careers.utrgv.edu/postings/26240/*.

University of Toronto

Assistant Professor, Teaching Stream

The Edward S. Rogers Sr. Department of Electrical and Computer Engineering (ECE) in the Faculty of Applied Science & Engineering at the University of Toronto invites applications for a full-time teaching stream faculty appointment at the rank of Assistant Professor, Teaching Stream, in the area of Electrical and Computer Engineering Design . The appointment will commence on July 1, 2021, or shortly thereafter.

Applicants must have a PhD in Electrical and Computer Engineering, or a related field by the time of appointment or soon after, or a related Masters degree with extensive teaching experience, with a demonstrated record of excellence in teaching. We seek candidates whose teaching interests complement and strengthen our existing *departmental strengths*,and who have demonstrated skills, knowledge, and experience in engineering design that balance theory and practice. We seek applications from individuals who combine a demonstrated expertise in and passion for electrical and computer engineering design as a distinct discipline – one that has its own scholarship and that integrates knowledge and practices from multiple domains – with a demonstrated excellence in teaching engineering design. These individuals will also be designers in their own right, with demonstrated experience designing solutions in the domain of electrical and computer engineering. Eligibility and willingness

to register as a Professional Engineer in Ontario is highly desirable .

Candidates must have the expertise to teach in a degree granting program at the undergraduate program level, including in the development and delivery of undergraduate courses and laboratories, curriculum development, and supervision of undergraduate design projects. Additionally, candidates must possess a demonstrated commitment to excellent pedagogical practices and a demonstrated interest in teaching- related scholarly activity.

Evidence of excellence in teaching and pedagogical inquiry will be demonstrated by previous teaching experience and accomplishments; the teaching dossier submitted as part of the application including a teaching statement describing philosophy, approach, interests, and experience, in all pedagogical settings including classroom, engineering design instruction, laboratory, tutorials, workshop, small group and individual mentorship; awards and accolades; sample course syllabi and materials ; and teaching evaluations, as well as strong letters of reference from referees of high standing endorsing excellent teaching and commitment to excellent pedagogical practices and teaching innovation.

Equity, diversity, and inclusion (EDI) are essential to academic excellence and to the success of our department. Evidence of a commitment to EDI must be demonstrated by a statement, submitted with the application, describing views, experiences and/or plans furthering EDI via teaching mentorship, outreach, and/or other activities.

The successful applicant will teach engineering design in multiple courses across all levels of the program, including coordinating the ECE capstone project course (ECE496), and will contribute to the ongoing development of the ECE department's engineering design curriculum. They will collaborate with other ECE instructors to integrate engineering design more broadly across the ECE undergraduate programs. They will also join a core group of design educators to support the development of design curricula across the Faculty.

The successful applicant will take a leadership role in building bridges between ECE and the greater community through capstone projects. They will help create a sustainable framework for bringing in external projects and helping break down problems presented by external clients into suitable capstone projects. They will be working in conjunction with ECE faculty, leveraging their research interests, industry partnerships, and technical expertise. They will be working with a broad range of outside clients, including industry and organizations, the healthcare sector, and alumni. The successful candidate will also help to bridge students to entrepreneurial opportunities potentially through help from, for example, the Hatchery and other UofT incubators. Such efforts will enhance the undergraduate student experience, providing greater opportunities for students to work on projects that have a real impact to benefit Canadian industry and society at large.

Salary will be commensurate with qualifications and experience.

The Faculty of Applied Science and Engineering offers opportunities for collaborative and interdisciplinary research and teaching, and the excitement of working with a diverse student population. Established in 1873, the Faculty of Engineering has earned an international reputation for excellence in education and knowledge creation and is known as a forward-thinking resource to address global concerns. As the economic and intellectual hub of Canada, Toronto provides access to leading policy and decision makers at all levels, and is a vibrant, cosmopolitan and safe city. For more information about the Faculty of Applied Science and Engineering, please visit: ***engineering.utoronto.ca.***

The Edward S. Rogers Sr. Department of Electrical and Computer Engineering at the University of Toronto ranks among the best in North America. It attracts outstanding students, has excellent facilities, and is ideally located in the middle of a vibrant, artistic, diverse and cosmopolitan city. Additional information may be found at ***http://www.ece.utoronto.ca***.

All qualified applicants are invited to apply online by clicking the link below. Applicants must submit a cover letter, a current curriculum vitae, a teaching dossier including a summary of previous teaching experience and accomplishments, a teaching statement, sample course syllabi and materials, and teaching evaluations, and an EDI statement.

Applicants must arrange for three letters of reference, including at least one primarily addressing the candidate's teaching, to be **sent directly by the**

referees (on letterhead, dated, signed and scanned), by email to the ECE department at *search2020@ece.utoronto.ca*. **PLEASE NOTE**: this search is **not** using the University's automatic solicitation and collection functionality for reference letters. Applications without reference letters will not be considered; it is the applicant's responsibility to make sure referees send us their letters while the position remains open.

Applications must be submitted through our online application system. Applications submitted in any other way will not be considered. Submission guidelines can be found at *http://uoft.me/how-to-appl*y. If you have any questions about this position, please contact the ECE department at *search2020@ece.utoronto.ca*.

Review of applications will begin after January 25, 2021, however, the position will remain open until March 1, 2021. To be considered, all application materials, including reference letters, must be received by March 1, 2021.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Diversity Statement

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources sta-. Results will be aggregated for institutional planning purposes. For more information, please see *http://uoft.me/UP.*

Accessibility Statement

The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are linked with our unwavering commitment to excellence in the pursuit of our academic mission.

The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities.

If you require any accommodations at any point during the application and hiring process, please contact *uoft.careers@utoronto.ca.*

University of Virginia

Open Rank - Cybersecurity

The University of Virginia (UVA) seeks applicants for multiple open rank, tenured or tenure-track faculty positions in fields related to Cyber Security. These faculty positions have the flexibility of appointments among multiple schools/departments across the University. The successful applicants will be expected to engage in active research, teach at the undergraduate and graduate levels, and perform service for the institution and professional organizations. Rank, tenure-status, and compensation are contingent upon experience. UVA has a strong culture of collaboration and collegiality and is committed to creating collaborative environments necessary to solve the next generation of research challenges.

All relevant areas of research will be considered, including but not limited to:

- Foundations: Theory of security and privacy, models of trust, models of risk, methods of secure communication and computation, cryptography, threat modeling, anonymity-based models, and knowledge hiding models.
- Secure Systems: secure operating systems, databases, networks, secure distributed systems, secure cloud systems, secure web browsers, hardware security, embedded systems, and mobile devices.
- Privacy: Data and computation privacy, anonymization techniques for users and their data, and private information retrieval.
- Security and Privacy Applications: Cyber-physical systems, computer forensics, malware analysis, vulnerability analysis, human-centric security, law and public policy, electronic commerce.
- Behavioral Security: predictive and analytical behavior modeling, sociotechnical security, social and cognitive psychology approaches, building organizational resilience.

- Cyber Resilience: Systems modeling and analytical tools to support design of systems that are resilient to cyber-attack.
- Machine learning in cybersecurity: deep learning practically applied to network intrusion detection systems, cyber threat hunting at global scale through analysis.

Applicants must have a PhD by the time of appointment, a record of excellence in research, as appropriate for the candidate's rank, a commitment to teaching excellence, and a commitment to the promotion of diversity, equity, and inclusion. Tenured appointments require documented excellence in research and teaching, and an emerging national reputation.

Please apply online at *https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank---Cybersecurity_R0020068-1* and attach the following required applicant documents:

a cover letter, including a summary of research interests and accomplishments, and potential UVA collaboration a detailed curriculum vitae a summary of your five-year research plan and prior research accomplishments, a statement of teaching philosophy, a statement describing your experience working with a diverse student body, as well as your past, present, and/or future contributions to creating/advancing a culture of diversity, equity and inclusion.

Please note that multiple documents can be uploaded in the link referenced above.

Review of applications will begin on December 19, 2020 and will remain open until filled. The successful applicant is expected to start in August 25, 2021 or at a date of mutual agreement.

The University will perform background checks on all new faculty hires prior to making a final offer of employment.

For questions about the position, please contact Peter Beling, Faculty Search Chair, at *pb3a@virginia.edu*.

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at *rkh6j@virginia.edu*.

The University assists UVA faculty spouses and partners seeking employment in the Charlottesville area. To learn more about these services, please see *http://provost.virginia.edu/dual-career*.

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

University of Virginia

Academic General Faculty

The Department of Computer Science at the University of Virginia seeks applications for one or more non-tenure-track teaching-faculty positions to begin in August 2021. Candidates can apply for these long-term positions at one of three professorial ranks or at one of three lecturer ranks. We seek applicants who share our interest and enthusiasm for excellence in computing science education to join our department of 57 faculty, including 17 teaching faculty. We are especially seeking faculty who can teach courses in computer security, databases, cloud computing, mobile computing, and AI, but are hiring in all areas of CS.

The department is committed to creating and benefiting from an environment where a diverse group of capable, inspired individuals interact and collaborate to learn and advance knowledge without barriers.

Candidates for a General Faculty position at the rank of Assistant, Associate or full Professor must, by the time the position starts, have a PhD or equivalent experience in computer science or a related discipline. They must have an interest in and ability to teach a broad set of courses in our undergraduate curriculum. Course load will be two to three sections per semester consisting of a mix of upper- and lower-division courses. Graduate-level teaching will possibly be included. Faculty in professorial positions will have service

responsibilities, and scholarship in computing or in CS education is expected for promotion. The department strongly values scholarship activities by General Faculty that have potential to advance computing education.

Candidates for a General Faculty position at the Lecturer, Senior Lecturer or Distinguished Lecturer rank must have a Master's degree or equivalent experience in computer science or a related discipline. Lecturers will usually teach two to three sections of core undergraduate courses but will also have the opportunity to teach more specialized upper-level courses. Lecturers may have fewer expectations for service activity, and will not be required to pursue scholarship for promotion.

These positions will have renewable three-year contracts. University policies insure that these positions benefit from opportunities for professional development, and there is a well-defined promotion path for these positions. General Faculty receive departmental support for their teaching and scholarship activities.

The University of Virginia is annually ranked as one of the premier public institutions in the United States and is located in Charlottesville, a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at *https://provost.virginia.edu/subsite/faculty-affairs/new-faculty-candidate-resources*.

UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit *https://dualcareer.virginia.edu/*.

With one of the highest graduation rates of minority undergraduate students and one of the highest percentages of women engineering students among public universities, the Department and the University of Virginia are fundamentally committed to increasing the diversity of its faculty and staff. UVA is an affirmative action and equal opportunity employer. We welcome nominations of and applications from women, members of minority groups, veterans and individuals with disabilities. We also welcome others who would bring additional dimensions of diversity to the university's research and teaching mission. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences.

Please apply online at *https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Open-Rank-Computer-Science--Academic-General-Faculty_R0020187* and attach the following documents: a CV; a statement of teaching philosophy; contact information for three references; and, a cover letter that addresses your experience working with diverse populations and your values related to diversity, equity, and inclusion.

Review of candidates will begin on December 23, 2020 and will continue until positions are filled.

For questions regarding the positions, please contact Raymond Pettit, Search Committee Chair, at *raymond.pettit@virginia.edu*.

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at *rkh6j@virginia.edu*

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers.
All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

University of Virginia

Computer Science Department Chair

The Department of Computer Science within the School of Engineering and Applied Science at the University of Virginia invites applications for the role of department chair to begin in August 2021. The department has a history of bringing

visionary and accomplished scholars from the broader Computer Science community to expand the impact of our research and educational programs. We seek a world-class scholar and leader, whose background allows them to be appointed as a full professor, to lead the next phase of our growth.

The department has experienced significant growth in recent years. In the past 6 years, it has hired 33 faculty members, bringing the total to 57. In that time, the number of undergraduate majors has more than doubled and the number of graduate students has more than tripled. This period has seen a remarkable growth in the size and reach of its research program, e.g., research expenditures are up by more than 260%, and it participates in 3 externally funded center-scale activities - leading two of those. Moreover, the department has led the creation of two major interdisciplinary initiatives within the university - the LinkLab, which is engaged with Cyber Physical Systems research (*https://engineering.virginia.edu/link-lab*) and the Biocomplexity Institute (*https://biocomplexity.virginia.edu/*) – and jointly administers the Computer Engineering program with the Department of Electrical and Computer Engineering.

The department is committed to creating and benefiting from an environment where a diverse group of capable, inspired individuals interact and collaborate to learn and advance knowledge without barriers. This commitment can be seen in the department's 20-year focus on enhancing diversity and inclusion in its educational programs. These efforts have significantly increased diversity in its undergraduate program, with 31% of its Bachelor's degrees being awarded to women in 2019, which ranks 6th among public institutions.

The department is primed for further success. It enrolls a stellar group of undergraduate and graduate students (3-time National Cyber Defense Challenge champions, 12+ faculty placements in recent years). It has a cadre of excellent young faculty (15 NSF CAREER awardees) and established senior faculty (7 ACM/IEEE Fellows). It enjoys the committed support of university leadership (as evidenced by substantial internal funding to establish the LinkLab and the Biocomplexity Institute in the past 3 years). It has excellent relationships with leaders of the burgeoning regional technology sector in Virginia. The new chair will build on this momentum to take the UVA Computer Science department to the next level in this exciting time for its stakeholders.

The University of Virginia is annually ranked as one of the premier public institutions in the United States and is located in Charlottesville, a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at *https://provost.virginia.edu/subsite/faculty-affairs/new-faculty-candidate-resources*.

UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit *https://dualcareer.virginia.edu/*.

Please apply online at *https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Department-Chair-for-Computer-Science_R0020607* and attach the following documents:

1. a CV to include contact information for three references;
2. an overview of major research contributions and future research plans;
3. a teaching statement;
4. a statement describing your work related to diversity, equity and inclusion;
5. a cover letter describing your leadership philosophy and why you feel you are a good fit for the UVA chair position.

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

Review of candidates will begin on January 14, 2021 and will continue until filled.

For questions regarding the position, please contact Matthew Dwyer, Search Committee Chair, at *matthewbdwyer@virginia.edu*.

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at *rkh6j@virginia.edu*

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences

Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

University of Western Ontario

Faculty Positions In Artificial Intelligence

Joint Positions

Department of Electrical and Computer Engineering Department of Computer Science

The Faculty of Engineering and the Faculty of Science at The University of Western Ontario, one of Canada's leading research-intensive universities, are jointly seeking applicants for two (2) faculty positions in the area of Artificial Intelligence. Successful applicants will be appointed at the rank of Assistant Professor (Probationary Tenure- track), Associate Professor (Probationary Tenure-track or Tenured), or Full Professor with Tenure depending on qualifications and experience.

Consideration of applications will begin February 15, 2021, with the intent that the new faculty members will join Western's faculty effective July 1, 2021. The successful applicants will be Joint-Appointed in the Department of Computer Science and the Department of Electrical and Computer Engineering, with home department determined by research area.

Applicants must possess a PhD in an appropriate field (Computer Science, Computer Engineering, Software Engineering, etc). Eligibility for PEng is an asset. The successful candidate will have made fundamental advances in artificial intelligence and contributions to the application of artificial intelligence especially in research areas of strength in the two departments as described below. The successful candidate must demonstrate an outstanding record of research productivity in the form of publications in high-impact peer reviewed journals and conferences, awards, invited talks and other scholarly achievements as appropriate for their career path and stage. Applicants must demonstrate that they are well-positioned to apply successfully for external funding in both the public and private sectors as evidenced by their current success at funding and/or their potential for future partnerships detailed in their research plan. Tenure and appointment at higher rank will be commensurate with evidence of excellence in research and impact through publications in the highest quality journals, and an established internationally-recognized, externally-funded research program.

The Department of Computer Science has research strengths in algorithms, artificial intelligence and machine learning, bioinformatics, computational neuroscience, distributed systems, networking, software engineering and theoretical computer science. The Department of Electrical and Computer Engineering has research strengths in data analytics, software engineering, network communications, robotics, power systems and biomedical engineering. Both Departments have strong ties to industry and strongly encourage and support participation in interdisciplinary research. Recent investment through a partnership between Bell Canada and Western will see the creation of an advanced 5G research centre that will enable Western to become a "living lab" for shaping smart cities and communication systems. The Departments jointly offer a collaborative Master's program in Artificial Intelligence. Computer Science jointly offers an undergraduate data science program and a professional Master's program in data analytics with the Department of Statistical and Actuarial Science.

Western University is a prominent academic institution routinely ranked as a top research-intensive university in Canada and is committed to excel as a leading research institution internationally. Western University has a full-time enrollment of about 32,000 students in a range of academic and professional programs. Further information about Western can be found at *http://www.uwo.ca/*, The Faculty of Engineering at *http://www.eng.uwo.ca*, The Department of Electrical & Computer Engineering *https://www.eng.uwo.ca/electrical/*, The Faculty of Science at *https://www.uwo.ca/sci/* and

the Department of Computer Science at *https://www.csd.uwo.ca.* The university campus is in London Ontario, a thriving city of 404,000, located midway between Toronto and Detroit. With parks, river valleys, tree-lined streets, and bicycle paths, London is known as the "Forest City" and boasts an international airport, galleries, theatre, music and sporting events (see *http://www.ledc.com*). Western Engineering's Mission, Vision and Values can be found at *https://www.eng.uwo.ca/files/departments-units/human-resources/values-mission-statement.pdf*. Western's Recruitment & Retention Office is available to assist in the transition of successful applicants and their families.

If you share our commitment to excellence in teaching and research, and are eager to pursue a rewarding academic career, please send (i) a detailed curriculum vitae, (ii) a description of teaching experience and philosophy, (iii) a brief description of your current research program, accomplishments, and future plans, (iv) copies of representative publications, and (v) the names of three referees. Applications should be sent to: *csece@uwo.ca*.

Consideration of applications will commence on February 15, 2021 and will continue until the position is filled. Please ensure that the form available at *http://www.uwo.ca/facultyrelations/faculty/Application-FullTime-Faculty- Position-Form.pdf* is completed and included in your application submission.

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. The University invites applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups, Indigenous peoples, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents.

Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodations for interviews or other meetings, please contact csece@uwo.ca.

University of Wisconsin-Madison

Research Associate (Postdoctoral)

Drs. Matthew Churpek, MD, PhD, and Majid Afshar, MD, MS, of the 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 on federally funded projects (National Institute of Health and Department of Defense) in clinical natural language processing and deep learning.

Job Duties:

We are seeking a clinical NLP lead in our lab. 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. These activities include training and fine-tuning pre-trained neural language models such as BERT, RoBERTA, GPT, etc. and adapting them for long document classification, building clinical NLP tasks for benchmarking, and federated learning activities. NLP tasks will include named entity recognition, relation extraction, sentence similarity, natural language inference, and natural language generation. The diversity of subject matter will require a multidisciplinary candidate with a background in statistics, modern neural network architectures such as transformers, transfer learning, and data management to derive and validate clinical decision support tools for the electronic health record. We are looking for candidates who could fill one of two possible subspecialties in our lab but preferably both:

- Sub-specialty 1: Deep learning (transformers, ANN, CNN, RNN, and GNN)
- Sub-specialty 2: Natural language processing (NLP)

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

Requirements:

- Must meet one of the following:
  - » PhD degree in computer science, information science, computational linguistics, biomedical informatics,

biostatistics, data science, or a closely related field;

» Preferred master's degree in one of the fields above and at least one year of work experience OR at least 3 years work experience in deep learning or NLP.

- Experience in research; ability to plan and carry out research experiments and projects in the clinical arena.
- Experience in the fields of areas of deep learning OR clinical natural language processing/computational linguistics. Additional experience in medical terminologies/ontologies is strongly encouraged.
- Preferred experience with cloud computing for both Azure and AWS.
- Strong programming experience (e.g., Python, Java, R, SAS, TensorFlow, PyTorch, Keras, SQL).
- Strong written and oral communication skills required.
- Ability to work both independently and as a team player.

Begin Date: January 19 or thereafter. The position is renewable annually.

Percent Time: 100%

Salary: TBD

Interested candidates should email the following application materials to Madeline Oguss, *mkoguss@medicine.wisc.edu*:

- Cover letter/summary statement of personal objective and research interests.
- Curriculum Vitae
- Contact information from two references (will be requested of finalists)

Utah State University

Computer Science Assistant Professor

The Computer Science Department at Utah State University is seeking applications to fill two tenure-track Assistant Professor positions, starting August 1, 2021, to strengthen its focus on Software Engineering, Security, Cloud Computing, Robotics, Human Computer Interaction, and Data Science.

Application reviews will begin in January 2021.

Apply at: *https://careers-usu.icims.com/jobs/3181/job*

EEO Employer/Veterans/Disabled *http://aaeo.usu.edu/non-discrimination*

Vanderbilt University

Tenure-Track Faculty Positions in Computer Science

The Department of Electrical Engineering and Computer Science (EECS) is launching a multi-year faculty recruitment and hiring process in Computer Science for 20 tenure-track positions at all career levels over and above normal hiring patterns, with preference at early-career appointments. Destination-CS is part of the university's recently launched **Destination Vanderbilt**, a $100 million university excellence initiative to recruit new faculty. Over the next two to four years, the university will leverage the investment to recruit approximately 60 faculty who are leaders and rising stars in their fields, at least 20 of which will be in computer science. **For more information, please visit our web site:** *http://vu.edu/destination-cs*.

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:

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

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 nurtures interdisciplinary activities. The university has a student body of over 13,500 undergraduate, graduate, and professional students, including 36% minority students and over 1,100 international students from 84 countries. 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 EECS department is above $800k per year. All junior faculty members hired during the past 15 years have received prestigious young investigator awards, such as NSF CAREER and DARPA CSSG.

Nashville has a metro population of approximately 1.9 million people. 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.

Applications should be submitted on-line at: *http://apply.interfolio.com/80624*. **Applications will be reviewed on a rolling basis beginning December 15, 2020 with interviews beginning January 1, 2021. For full consideration, application materials must be received by January 31, 2021.**

Vrije Universiteit Amsterdam

Assistant Professor (Tenure Track) in Foundational and Experimental Security

Position

Vrije Universiteit Amsterdam is looking for an assistant professor within a new group on Foundational and Experimental Security -- to create a world-class security research cluster with multiple pillars. A successful candidate will set up her/his own research line in the broad areas of interest for empirical approaches to security from risk analysis to network and system security, from secure software engineering to usable security.

Requirements

Our philosophy is to hire the best person rather than hiring a person in a narrowly defined research area. Candidates should have PhD and a strong track record in their research area, as evidenced by, for instance, publications in high-quality venues, real-world impact like open-source/open-access projects, awards/ grants, visibility, citations and ability to work in interdisciplinary groups.

About VU Amsterdam

VU is home to more than 26,000 students. The VU campus is located in the heart of Amsterdam's Zuidas district. The CS department has continuously enjoyed a world-class reputation in multi-disciplinary research. It is known as the birthplace of MINIX (adopted by Intel for its Management Engine), the OWL Semantic web language and several recent attacks on hardware security. The department participates to several multi-disciplinary institutes with the medical and business schools such as the network institute, or the sustainability and software engineering center. All teaching at VU (including the BSc level) is in English.

Diversity

Diversity is one of our most important values. Engaging in international activities and welcoming students and staff from a wide variety of backgrounds enhances the quality of our education and research. We especially encourage female applicants.

Application and Further Particulars

Are you interested in this position? Please apply at the link below

https://workingat.vu.nl/ad/assistant-professor-in-foundational-and-experimental-security-tenure-track/xu0ol4">*https://workingat.vu.nl/ad/assistant-professor-in-foundational-and-experimental-security-tenure-track/xu0ol4*

and upload your curriculum vitae and cover letter until **January 19, 2021**.

Questions?

If you have any questions regarding this vacancy, you may contact:

Prof. Dr. Fabio Massacci
f.massacci@vu.nl

https://fabiomassacci.github.io">*https://fabiomassacci.github.io*

West Virginia University

Assistant Professor-Data Science

The Eberly College of Arts and Sciences at West Virginia University invites applications for a tenure-track assistant professor position in Data Science starting August 2021. The successful candidate is expected to develop a research program, obtain external funding, mentor and teach students in the undergraduate data science major and minor programs, and be an active interdisciplinary collaborator. This is the second position in a series of new positions in Data Science and is an exciting opportunity for someone to join a nascent program and help to shape its growth. For additional information email *snehalata.huzurbazar@mail.wvu.edu*.

WVU (*https://www.wvu.edu*) is a comprehensive land-grant university with a total enrollment of 29,000 students. It is classified as "R1-very high research activity" by the Carnegie Foundation. WVU is located in Morgantown (*http://www.morgantownwv.gov/*), a city ranked in the Top 100 Best Places to Live in America (*https://livability.com/best-places/top-100-bestplaces-to-live/2019/wv/morgantown*). The immediate region has a diverse population of about 200,000 residents, and is readily accessible to Pittsburgh and Washington, DC. The city lies within a high technology corridor that includes several federal research facilities such as DOE's National Energy Technology Laboratory, CDC's NIOSH Laboratory, the NASA IV&V facility, as well as resource-based industries and the Virgin Hyperloop Certification Facility.

To apply for this position, visit *https://careers.wvu.edu*, navigate to the position title listed above, and submit, (1) a single PDF file including a statement of research interests, a statement of teaching philosophy, a current curriculum vitae, and a statement describing the candidate's potential to further our progress in building a diverse and inclusive academic community (to be reviewed without consideration of your personal demographics); and (2) a list of names and email addresses for at least three individuals who can provide prompt letters of recommendation.

Review of applications will commence on February 15, 2021, and will continue until the position is filled. WVU is an EEO/Affirmative Action Employer and welcomes applications from all qualified individuals, including minorities, females, individuals with disabilities, and veterans.

Western University

2 Faculty Positions in Artificial Intelligence

The Faculty of Engineering and the Faculty of Science at The University of Western Ontario, one of Canada's leading research-intensive universities, are jointly seeking applicants for two (2) faculty positions in the area of Artificial Intelligence. Successful applicants will be appointed at the rank of Assistant Professor (Probationary Tenure- track), Associate Professor (Probationary Tenure-track or Tenured), or Full Professor with Tenure depending on qualifications and experience.

Consideration of applications will begin February 15, 2021, with the intent that the new faculty members will join Western's faculty effective July 1, 2021. The successful applicants will be Joint-Appointed in the Department of Computer Science and the Department of Electrical and Computer Engineering, with home department determined by research area.

Applicants must possess a PhD in an appropriate field (Computer Science, Computer Engineering, Software Engineering, etc). Eligibility for PEng is an asset. The successful candidate will have made fundamental advances in artificial intelligence and contributions to the application of artificial intelligence especially in research areas of strength in the two departments as described below. The successful candidate must demonstrate an outstanding record of research productivity in the form of publications in high-impact peer reviewed journals and conferences, awards, invited talks and other scholarly achievements as appropriate for their career path and stage. Applicants must demonstrate that they are well-positioned to apply successfully for external funding in both the public and private sectors as evidenced by their current success at funding and/or their potential for future partnerships detailed in their research plan. Tenure and appointment at higher rank will be commensurate with evidence of excellence in research and impact through publications in the highest quality journals, and an established internationally-recognized, externally-funded research program.

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Consideration of applications will commence on February 15, 2021 and will continue until the position is filled. Please ensure that the form available at *http://www.uwo.ca/facultyrelations/faculty/Application-FullTime-Faculty-Position-Form.pdf* is completed and included in your application submission.

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. The University invites applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups, Indigenous peoples, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents.

Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodations for interviews or other meetings, please contact Michelle Wagler at: *mwagler6@uwo.ca*

William & Mary

Assistant Professors of Computer Science

The Department of Computer Science at William & Mary seeks applications for three tenure-track positions at the Assistant Professor level to begin in the 2021- 2022 academic year. We are interested in exceptional applicants from all areas of computer science. Applicants must have a Ph.D. in computer science or a related field at the time of appointment and must have a strong research record and a commitment to teaching.

The applicant is expected to establish a high-quality research program, publish

research results in top venues, teach at the undergraduate and graduate levels, supervise graduate and undergraduate research, and attract external funding to support their research activities.

William & Mary is consistently ranked in the elite group of the Best National Universities-Doctoral by U.S. News and World Report and is committed to a multi-year effort to strengthen and expand its computer science research program. With a teaching load of two courses per year and institutional support, the department has been rising in national rankings of graduate CS departments, and has been the home of multiple NSF and DOE Career Awards. The department offers B.S., M.S., and Ph.D. programs. More information about the department can be found at *http://www.cs.wm.edu* or by contacting the department chair at *rmlewi@wm.edu*.

Applicants must apply online at *https://jobs.wm.edu* (follow the link for instructional faculty). Please submit a cover letter, a curriculum vitae, and statements on research and teaching, and a statement describing previous professional experience or future plans (or both) that demonstrate a commitment to diversity and inclusion. Applicants will be prompted to submit online the names and email addresses of three references who will be contacted automatically with instructions for submitting letters of recommendation. We will begin to review applications on January 25, 2021.

William & Mary values diversity and invites applications from underrepresented groups who will enrich the research, teaching and service missions of the university. William & Mary is an Equal Opportunity/Affirmative Action employer and encourages applications from women, minorities, protected veterans, and individuals with disabilities. William & Mary conducts background checks on applicants for employment.

William & Mary

Lecturer of Computer Science

The Department of Computer Science at William & Mary invites applications for a non-tenure-track Lecturer position that will begin August 10, 2021. The initial term is for one year and renewal is contingent on successful performance review, department needs, and availability of funding. We seek an individual with expertise in computer science or computer programming. The successful applicant will be expected to be an effective teacher and will have a 3-3 teaching load.

Required: A Master's degree is required.

Preferred: A Ph.D. or ABD is preferred at the time appointment begins (August 10, 2021).

The Department of Computer Science is at the beginning of a multi-year effort to double the size of its undergraduate major as part of the Commonwealth of Virginia's Tech Talent Investment Program. William & Mary is regularly ranked among the best universities in the United States for undergraduate education.

Applicants must apply online at *https://jobs.wm.edu*. Submit a curriculum vitae and a cover letter including a statement on teaching interests and a statement describing previous professional experience or future plans (or both) that demonstrate a commitment to diversity and inclusion.. You will be prompted to submit online the names and email addresses of three references who will be contacted by the system with instructions on how to submit a letter of reference. We will begin reviewing applications on March 1, 2021 and will continue to do so until the position is filled. Information on the degree programs in the Department of Computer Science may be found at *http://www.cs.wm.edu*.

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