

COMPUTING RESEARCH NEWS



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

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CRN At-A-Glance

Virtual Roundtable on Building Stronger Regional Academia-Industry-Government Computing Research Partnerships

The Computing Research Association-Industry Committee is delighted to announce an upcoming virtual Roundtable on **Building Stronger Regional Academia-Industry-Government Computing Research Partnerships** on **Wednesday, April 27th from 3:00-4:30 PM ET.**

see page 23 for full article

CSGrad4US: Second Year Call for NSF Fellowship Opportunity for CS Bachelor's/Master's Degree Holders to Return for PhD

The National Science Foundation (NSF) Computer and Information Science and Engineering (CISE) Directorate has announced the second year of the **CSGrad4US** Graduate Fellowship program.

Timeline and Eligibility

The 2022 solicitation has expanded the eligibility rules. In particular, applicants must have graduated with a bachelor's degree in a CISE field before June 30, 2021, and can have received an MS degree. Applications for the CSGrad4US Graduate Fellowship are due May 19, 2022.

Please visit <https://www.nsf.gov/cise/CSGrad4US/> for all eligibility criteria and additional details and deadlines.

see page 26 for full article

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2022 CRA Conference at Snowbird Preliminary Agenda

Conference theme: Socially Responsible Computing Research

This year's CRA Conference at Snowbird will explore the tremendous opportunities for computing research to dramatically benefit the human condition, as well as the related responsibility for computing research to consider the risks inherent in the work we do. Ensuring socially responsible intentions and practices is critical to realizing the future potential of computing research.

Sessions will be broken down into four tracks:

Track 1: Computing Departments - Undergraduate and graduate interest in computer science has skyrocketed. This track includes sessions that will explore how to support high-quality, diverse research and teaching in the context of booming enrollments.

Track 2: Computing Education - This track looks at areas that are emerging as an important part of the computing research curriculum, including ethics, security and privacy, and data science.

Track 3: Computing in Industry - As computing grows ubiquitous, computing research is increasingly important to industry. This track will cover how research is conducted in industry and the partnership between industry and academia.

Track 4: Computing for Good - This track will explore the ways that computing research can help create a better future by supporting social justice, removing bias, and driving environmental sustainability.

Preliminary Agenda

TUESDAY, JULY 19

1:00 - 2:30 pm

How and Why to Create a Departmental BPC Plan

Broadening participation in computing (BPC) requires our individual and collective effort. To this end, the National Science Foundation (NSF) Directorate for Computer and Information Science and Engineering (CISE) started an initiative in 2017 to contribute to scaling up the BPC efforts of the computing community. Specifically, the CISE Directorate introduced a new requirement for Principal Investigators (PIs) to submit a BPC Plan in proposals submitted to a number of their programs. Further, computing departments are also encouraged to develop departmental BPC Plans that map out their strategy for broadening participation in computing within their context, demonstrate their commitment to BPC, and help their faculty develop the BPC Plans required for the proposals submitted to the applicable CISE programs.

There are two kinds of BPC Plans: Departmental BPC Plans and Project BPC Plans. Departmental BPC Plans are 2-page documents that summarize the context, goals, and primary BPC activities of an entire



Agenda (continued)

department or another grant-seeking unit. Departmental plans are reviewed and verified by BPC experts who are part of BPCnet.org—a resource clearinghouse for all things related to broadening participation.

This session will give the participants information on how to write Departmental BPC Plans, highlight the resources available to prepare these plans, and discuss the importance of Departmental BPC Plans. Throughout the session, the participants will have the opportunity to ask questions from NSF representatives and BPC experts.

noon – 4:30 pm

Inaugural CRA-Industry Meeting

Co-chairs: Vivek Sarkar (Georgia Tech) and Ben Zorn (Microsoft)

CRA-Industry is a new standing committee of the CRA created with the mission to convene industry partners on computing research topics of mutual interest and connect our partners with CRA's academic and government constituents for mutual benefit and improved societal outcomes. This event at Snowbird is intended to introduce potential industry partners to CRA-Industry and its ongoing activities and discuss ways in which CRA-Industry can most effectively support industry partners.

2:00 pm

Registration

3:00 – 5:45 pm

New Chairs Workshop

Co-chairs: Carla Brodley (Northeastern University) and Katie Siek (Indiana University)

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

6:00 – 7:00 pm

Welcome Reception

7:00 – 8:00 pm

Welcome Dinner

Welcome from the Conference Co-Chairs
50th Anniversary of the CRA
Celebration of Andy Bernat

8:00 pm

After-dinner Keynote

Dr. Sethuraman “Panch” Panchanathan, Director, National Science Foundation

WEDNESDAY, JULY 20

7:30 – 8:30 am

Registration/Breakfast

8:30 – 10:00 am

CRA: Looking Forward

Co-chairs: Ellen Zegura (Georgia Tech), Tracy Camp (CRA), Nancy Amato (University of Illinois), and Andy Bernat (Retired CRA)

CRA has finalized its Strategic Plan, thanks to tremendous effort and excellent input from a large number of community members. In this opening session, we'll share CRA's strategic themes, priority outcomes, and near-term initiatives. Our Strategic Plan, and its focus on socially responsible computing research,

Agenda (continued)

has defined CRA's direction for years to come. CRA will continue to excel in key areas, such as be a source for resources that inform the field, as well as establish itself as a catalyst for computing research organizations to enhance the field. We invite you to learn where CRA is headed, both in the long-term and the short-term, as well as who will help lead us there.

Awards Presentations

10:00 – 10:30 am

Break

10:30 am – noon

The Trusting of Intelligent Machines: How AI Influences Human Behavior

Chair: Penny Rheingans (University of Maine)

Speaker: Ayanna Howard (The Ohio State University)

People tend to overtrust sophisticated computing devices, including robotic systems. As these systems become more fully interactive with humans during the performance of day-to-day activities, the role of bias in these human-robot interaction scenarios must be more carefully investigated. Bias is a feature of human life that is intertwined, or used interchangeably, with many different names and labels – stereotypes, prejudice, implicit or subconsciously held beliefs. In the digital age, this bias has often been encoded in and can manifest itself through AI algorithms, which humans then take guidance from, resulting in the phenomenon of excessive trust. Trust conveys the concept that when interacting with intelligent systems, humans tend to exhibit similar behaviors as when interacting with other humans; thus, the concern is that people may under-appreciate or misunderstand the risk associated with handing over decisions to an intelligent agent. Bias further impacts this potential risk for trust, or overtrust, in that these systems are learning by mimicking our own thinking processes, inheriting our own implicit biases. Consequently, the propensity for trust and the potential of bias may have a direct impact on the overall quality of the interaction between humans and machines, whether the interaction is in the domains of healthcare, job-placement, or other high-impact life scenarios. In this talk, we will discuss this phenomenon of integrated trust and bias through the lens of intelligent systems that interact with people in scenarios that are realizable in the near-term.

noon

Lunch

1:30 – 3:00 pm

Parallel Tracks

Track 1: Booming Enrollments While Broadening Participation in Computing

Co-chairs: Nancy Amato (University of Illinois) and Carla Brodley (Northeastern University)

Moderator: Nancy Amato (University of Illinois)

Speakers: Christine Alvarado (University of California, San Diego), Carla Brodley (Northeastern University), and Craig Partridge (Colorado State University)

Demand for undergraduate degrees in computing has increased rapidly in the last few years and shows no signs of abating. Many universities have put enrollment caps into place for various reasons including being unable to hire sufficient faculty to keep up with student demand, or to maintain balance between

Agenda (continued)

disciplines across the university. An inability to hire sufficient faculty is in part due to great demand and competition in the job market but also frequently due to lack of resources, which can be hindered by a university's adaptability in reappportioning resources quickly. COVID has exacerbated the gap between student demand and faculty resources due to hiring freezes at some universities. In this panel we discuss the ways in which universities are handling booming enrollments and their positive/negative impact on broadening participation in computing. **In particular, we will discuss how to effectively scale introductory classes, fair/unfair ways to cap enrollments, and how interdisciplinary computing majors can provide a solution to booming enrollments.**

Track 2: Incorporating Ethics into Computer Science Education

Co-chairs: Kathy Pham (Mozilla/Harvard) and Bobby Schnabel (University of Colorado, Boulder)

Speakers: Casey Fiesler (University of Colorado, Boulder), Seny Kamara (Brown University), Helena Mentis (University of Maryland Baltimore County), Kathy Pham (Mozilla/Harvard) and Bobby Schnabel (University of Colorado, Boulder)

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

Track 3: Computing Research in Industry

Chair/Moderator: Jaime Teevan (Microsoft)

Speakers: Susan Dumais (Microsoft), Fernando Pereira (Google), Manuela Veloso (JPMorgan Chase) and Kristin Lauter (Meta)

Computation is in the process of transforming all areas of a business, from the way work gets done to the products and services that are created. As a result, companies are increasingly investing in fundamental computer science research in support of their strategic goals. This panel will look at what it means to do computing research in an industrial setting. Panelists will describe how research is conducted in their organizations, highlighting how problems are selected, how research is incentivized, and how results have internal and external impact. They will also discuss some of the key differences of doing research in an industrial setting compared with an academic setting, and share ideas for how universities might best prepare their students for a career in industrial research.

Agenda (continued)

Track 4: Climate-Smart Computing to Address a Grand Challenge Facing Our Changing Planet

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

Speakers: Andrew A. Chien (University of Chicago), Vipin Kumar (University of Minnesota) and Ran Libeskind-Hadas (Claremont McKenna College)

Climate change has been declared as the defining crisis of our time and concrete actions are needed now. Many communities have started major initiatives to address climate change. For example, the Biden administration has made it a central priority for all federal agencies resulting in initiatives for reducing greenhouse gases (GHG) emissions (e.g., electric vehicles), absorbing GHG (e.g., forests), increasing resilience (sea level rise, forest fires, extreme cold/hot weather), etc. This panel will bring together thought leaders in academia, industry and government to explore climate-smart computing opportunities by addressing questions such as the following:

- What is climate-smart computing? What may it help understand, mitigate, and adapt to climate change? How may we reduce computing's carbon footprint?
- What are computing research success stories in this area?
- What are major computing opportunities in this area?
- How may new computing researchers get involved?
- What are key research infrastructures (e.g., datasets, cyberinfrastructure, funding)?
- Is there a need for computing research community action? If so, recommend one.

3:00 – 3:30 pm

Break and Group Photo

3:30 – 6:30 pm

Networking Activities

Guided Hikes

Alternative talking/interacting activity

6:30 pm

Dinner

Reboot!

The CCC Council embarked on a new activity this year to generate new ideas for us to explore as a community. In this session, we will have a set of lively, provocative conversations about three of these “blue sky” topics.

Organizer: CRA's Computing Community Consortium - Ann Schwartz (CRA)

Speakers: Sujata Banerjee (VMWare), Nadya Bliss (Arizona State University), Bill Gropp (University of Illinois) and Dan Lopresti (Lehigh University)

Moderator: Liz Bradley (University of Colorado Boulder)

Agenda (continued)

THURSDAY, JULY 21

7:30 – 8:30 am

Breakfast

9:00 – 10:00 am

Reports from the Computing Research

Abstract: This session will highlight recent developments and reports from across the computing research community. Each presenter will provide a brief overview of their report and findings, and then audience members will participate in short, guided table-discussions around the themes introduced in the presentation. The goal of the session is to spur conversation at Snowbird on topics that are important to the computing research community and provide a teaser into a larger body work that inspires audience members to learn more after the session.

10:00 am

Break

10:30 am

Parallel Tracks

Track 1: Development of Teaching Faculty

Chair/Moderator: Ran Libeskind-Hadas (Claremont McKenna College)

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

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

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

Track 2: Security and Privacy Education

Chair/Moderator: Lorrie Cranor (Carnegie Mellon University)

Speakers: Patrick McDaniel (The Pennsylvania State University), Bo Yuan (Rochester Institute of Technology), Matt Bishop (University of California, Davis) and Michael Bailey (Georgia Tech)

Companies are reporting a growing shortage of qualified cybersecurity professionals, with hundreds of thousands of jobs going unfilled. New privacy laws around the world are also leading to rapid growth in the privacy profession, with an increased demand for privacy engineers. The demand for security and

Agenda (*continued*)

privacy professionals has prompted the creation of new degree programs at all levels. In addition, some universities are finding ways to incorporate security and privacy lessons throughout their computer science curricula. Panelists will discuss security and privacy undergraduate and graduate education, including course modules, full courses, and entire degree programs devoted to these areas.

Track 3: Industry-Academia Partnerships

Chair/Moderator: Divesh Srivastava (AT&T)

Speakers: Elizabeth Mynatt (Northeastern University), Chris Ramming (VMWare), Jennifer Rexford (Princeton University), Vivek Sarkar (Georgia Tech), and Benjamin Zorn (Microsoft)

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

Track 4: From Fairness to Responsibility: Actioning and Advancing the Discussion around “Algorithmic bias”

Co-chairs: Brent Hecht (Microsoft) and Ece Kamar (Microsoft)

Moderator: Brent Hecht (Microsoft)

Speakers: Ece Kamar (Microsoft), Miranda Bogen (Meta), Michael Kearns (University of Pennsylvania) and Maria De-Arteaga (UT Austin)

At the beginning of the last decade, the domain popularly known as “algorithmic bias” was a niche research area being advanced by a tiny group of scholars. By the end of the decade, “algorithmic bias” had become one of the most prominent domains of computing and a subject of great interest to policymakers and the

Agenda (*continued*)

general public. Anytime a field grows this quickly, it can be useful to stop and reflect on the field's strategic directions. In this panel, we will take part in this reflection. Some of the questions we will debate include:

- Is the computing community focusing on symptoms of problems related to “algorithmic bias” rather than their causes?
- Rather than attempting to tweak models, is our time better spent developing new technologies and systems that directly address societal harms?
- How can industry and academia productively collaborate on responsible AI, especially given concerns about “ethics washing”? How can industry productively contribute more generally?
- Can a repositioning of the field around responsibility rather than fairness encourage more robust solutions to the problems at the core of “algorithmic bias”?
- How can the research and engineering practices around fairness (and responsibility) match the urgency and needs emerging from AI systems entering the world in diverse ways?
- Are there ways in which productizing ideas in the fairness literature can lead to more harm than good, e.g., through a belief that a model’s “bias can be fixed”? If so, how can we prevent this from happening?

noon

Lunch

1:30 pm

Parallel Tracks

Track I: Undergraduate Research and Booming Enrollments: Who Wins

Co-chairs: Christine Alvarado (UC San Diego) and Kelly Shaw (Williams College)

Moderator: Kelly Shaw (Williams College)

Speakers: Edward Coyle (Georgia Tech), Sarah Heckman (North Carolina State), Joe Hummel (University of Illinois, Chicago) and Brandon Fain (Duke University)

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

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

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

Track 2: Data Science in Computer Science Education

Chair/Moderator: David Ebert (University of Oklahoma)

Speakers: Michael Franklin (University of Chicago), Magda Bałazinska (University of Washington), and Atul Prakash (University of Michigan)

The 2016 CRA Report on Computing Research and the Emerging Field of Data Science, highlighted the fact that data science will drive fundamentally new research in computer science and that the computing community has the opportunity to shape the emerging field of data science. Numerous schools have created minors and majors in data science. This session will explore how data science has impacted the educational programs in computer science and consider experiences, approaches, and answers to questions including:

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

Track 3: Techlash in Context: What Should CS Departments and Tech Companies Do?

Chair/Moderator: Vivek Sarkar (Georgia Tech)

Speakers: Lorrie Cranor (Carnegie Mellon University), Alfred Spector (Google), Moshe Vardi (Rice University) and Nirit Weiss-Blatt (Author of “The Techlash and Tech Crisis Communication”)

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

Agenda (continued)

Track 4: Addressing the Challenge of Mis- and Disinformation, Online and Beyond

Chair/Moderator: Kate Starbird (University of Washington)

Mis- and disinformation are a critical challenge for democratic societies. Acute misinformation can lead to poor decision making, for example about whether or not to take a vaccine. At scale, it can render a society unable to effectively respond to collective crises, from pandemics to climate change. Pervasive disinformation (intentionally misleading information) erodes trust in institutions, including science, journalism, government, and democracy – and can make it difficult for citizens of democratic societies to come together to do the difficult work of governing themselves. In recent years, we seem to be experiencing an acceleration and expansion of mis- and disinformation, with many pointing to the role of the Internet and social media in particular in their spread. As we continue to come to terms with the scale and nature of the issue, the work of identifying potential “solutions” looms. It’s clear that there is no one, simple solution – but there is hope that we can mitigate its damage by productively chipping away at the problem from multiple angles. This conversation explores some of the proposed solutions to the challenge of mis- and disinformation, addressing them along several distinct dimensions – e.g. from education, to policy, to platform (re)design.

3:00 – 3:30 pm

Break

3:30 – 5:00 pm

Making a Federal Case for Computing

Speaker: Peter Harsha (CRA)

Peter Harsha is the Director of Government Affairs for the Computing Research Association. In his position, Peter works to help CRA influence computing research policy by improving public and policymaker understanding of the nature of research, and by increasing the computing community’s awareness of and participation in policy issues. Prior to joining CRA in October 2001, Peter spent six years working for Congress, beginning as a member of the personal staff of Congressman Nick Smith of Michigan. In the 106th and 107th Congresses, Peter served as a member of the professional staff of the House Science Committee as Chairman Smith’s designee on the Subcommittee on Research, working on a portfolio of issues that included oversight of the National Science Foundation, Information Technology, the U.S. Fire Administration, and the National Earthquake Hazards Reduction Program. Peter has three boys, and a cat named for 80’s hockey goon Marty McSorley.

5:00 – 6:30 pm

Break

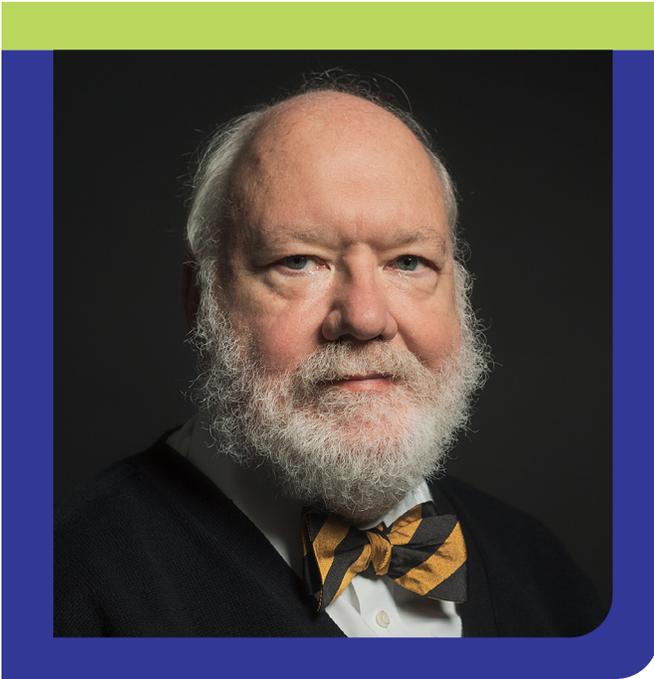
6:30 pm

Dinner

2022 Conference at Snowbird Organizing Committee:

- Penny Rheingans (University of Maine) Co-Chair
- Shashi Shekhar (University of Minnesota) Co-Chair
- Jaime Teevan (Microsoft) Co-Chair
- James Allan (University of Massachusetts, Amherst)
- Christine Alvarado (University of California, San Diego)
- Carla Brodley (Northeastern University)
- Peter Harsha (CRA)
- Kate Larson (University of Waterloo)
- Ran Libeskind-Hadas (Claremont McKenna College)
- Divesh Srivastava (AT&T)

Eugene Spafford Appointed to the CRA Board of Directors



Eugene H. Spafford has been appointed to serve as one of the two ACM representatives on the CRA Board of Directors, replacing Kathleen Fisher and joining Alexander Wolf.

CRA would like to thank Fisher for her contributions during her term of service on the board. Spafford has been a member of CRA's Government Affairs Committee for approximately 20 years, and this will be his second stint on the CRA Board, having served previously from 1998 - 2007.

Spafford is a Professor of Computer Sciences at Purdue University. He is also the Founder and Executive Director Emeritus of the Center for Education and Research in Information Assurance and Security. He has been working in computing as a student, researcher, consultant and professor for 44 years. Some of his work is at the foundation of current security practice, including intrusion detection, firewalls, and whitelisting. His most recent work has been in cyber security policy, forensics, and future threats.

Spafford is a Fellow of the American Academy of Arts and Sciences (AAA&S), the American Association for the Advancement of Science (AAAS), the ACM, the IEEE, and the (ISC)²; a Distinguished Fellow of the ISSA; and a member of the Cyber Security Hall of Fame - the only person to ever hold all these distinctions. In 2012, he was named as one of Purdue's inaugural Morrill Professors - the university's highest award for the combination of scholarship, teaching, and service. In 2016, he received the State of Indiana's highest civilian honor by being named as a Sagamore of the Wabash.

Among many other activities, he is Chair of ACM Publications Ethics & Plagiarism Committee and is Editor-in-chief of the journal *Computers & Security*.

In Memoriam: Former CRA Board Member and CRA-WP Co-Chair Andrea Danyluk

CRA is sad to announce that on March 3, 2022, Andrea Pohoreckyj Danyluk passed away at age 59 after a hard-fought battle with pancreatic cancer. The CRA community is deeply saddened by the loss of an amazing mentor, friend, and champion for diversity. She was family to many of her former students, colleagues, and friends.

Andrea was the Mary A. and William Wirt Warren Professor of Computer Science at Williams College. She received her A.B. from Vassar College in 1984 and her Ph.D. from Columbia University in 1992, and was a researcher at NYNEX (now Verizon) before joining the faculty at Williams in 1994.

In 2008, she joined the Board of the [CRA Committee on the Status of Women in Computing Research \(CRA-W\)](#), achieving a lasting impact by establishing new funding opportunities and mentoring programs at the national level. From 2008-2016, she led the Collaborative Research Experience for Undergraduates (CREU) program, which provides undergraduates with research experiences at their home institutions to increase their likelihood of continuing to graduate school. Danyluk helped create and establish funding for CRA-WP's Research Scholars program, which brought ~80 undergraduates to the annual Grace Hopper Celebration of Women in Computing each year from 2016 to 2019. She served as co-Chair of the CRA-WP Committee from 2019-2021 and on the CRA Board of Directors from 2019-2021. During this time, she helped the committee navigate through a major evolution to become the CRA Committee on Widening Participation in Computing Research (CRA-WP), focused on widening the participation and improving the access, opportunities, and positive experiences of individuals from populations underrepresented in computing research and education. She also helped manage CRA-WP through the COVID-19 global pandemic that forced key programs to move from physical to virtual meetings. Through trying times, Danyluk calmly navigated the group forward, making time and space for people to voice their opinions and concerns. In recognition of her successful and impactful efforts to build inclusive and diverse communities in computing, the Computing Research Association selected Andrea Danyluk as the recipient of the [2022 CRA A. Nico Habermann Award](#).

Danyluk's research was dedicated to machine learning, with an emphasis on applications. In 2019, she was recognized as an



ACM Distinguished Member for her contributions in computer science education, and in 2021 she was awarded the Williams College Nelson Bushnell Prize, for excellence in teaching and writing. She was a member of the ACM Education Board, the ACM Education Advisory Committee, and co-chair of the ACM Data Science Task Force.

Andrea profoundly impacted the lives of her family, friends, students, and colleagues. She will forever be remembered for her warm spirit, boundless energy, and infectious laughter.

The President of Williams College [published an in memoriam announcement](#). In lieu of flowers, the family requests that donations be directed to the [Memorial Sloan Kettering Cancer Center](#) or the Computing Research Association, in support of its [Committee on Widening Participation in Computing Research \(CRA-WP\)](#).

2022 A. Nico Habermann Award Recipient: Andrea Danyluk

The Computing Research Association has selected Andrea Danyluk as the recipient of the **2022 CRA A. Nico Habermann Award**, in recognition of her successful and impactful efforts to build inclusive and diverse communities in computing.

In making this award, CRA recognizes that Danyluk was a leader in broadening participation in computing at the national level. Whether working with a single student, participating in a panel, or leading a national effort, she was always invested in the collaboration, organized in her work, and principled in her approach.

In 2008, she joined the Board of the [CRA Committee on the Status of Women in Computing Research \(CRA-W\)](#), achieving a lasting impact by establishing new funding opportunities and mentoring programs at the national level. From 2008-2016, she led the Collaborative Research Experience for Undergraduates (CREU) program, which provides undergraduates with research experiences at their home institutions to increase their likelihood of continuing to graduate school. Danyluk helped create and establish funding for CRA-WP's Research Scholars program which brought ~80 undergraduates to the annual Grace Hopper Celebration of Women in Computing each year from 2016 to 2019. She served as co-Chair of the CRA-W Committee from 2019-2021. During this time, she helped the committee navigate through a major evolution to become the CRA Committee on Widening Participation in Computing Research (CRA-WP), focused on improving participation in computing research from all underrepresented populations, not exclusively focused on supporting women. She also helped manage CRA-WP through the COVID-19 global pandemic that forced key programs to move from physical to virtual meetings. Through trying times, Danyluk calmly navigated the group forward, making time and space for people to voice their opinions and concerns.

Danyluk was instrumental in helping students discover computing research and creating pathways to computing graduate school for many populations. Danyluk played a key role in establishing the Align MS in CS program at Northeastern which gives undergraduate students from other disciplines a pathway to pursue a MS in Computer Science. Align has been extremely impactful in increasing participation from underrepresented communities in computing. After identifying a gap for industry women interested in research, Danyluk worked to establish a



pathway for industry professionals interested in a research-focused career change. She served as a co-PI on the NSF EAGER grant to create and fund CRA-WP Returning Scholars program at the GHC conference where many industry professionals gather.

Danyluk was an amazing champion for research at primarily undergraduate institutions and encouraging underrepresented students at these institutions across the United States to consider research careers. Through her numerous efforts, she helped introduce thousands of undergraduate students to computing research. She was essential in making not only Williams, but many computing programs welcoming environments for students and faculty.

Danyluk's research was dedicated to machine learning, with an emphasis on applications. In 2019, she was recognized as an ACM Distinguished Member for her contributions in computer science education, and in 2021 she was awarded the Williams College Nelson Bushnell Prize, for excellence in teaching and writing.

A. Nico Habermann Award (*continued*)

Sadly, Danyluk passed away shortly after the award selection was made. The CRA community is deeply saddened by the loss of an amazing mentor, friend and champion for diversity. She will be sorely missed. The President of Williams College [published an in memoriam announcement](#).

About the Award

This award honors the late A. Nico Habermann, who headed NSF's Computer and Information Science and Engineering Directorate and was deeply committed to increasing the participation of women and underrepresented minorities in computing research. With this award, CRA recognizes individuals

who have made outstanding contributions aimed at increasing the numbers and/or successes of underrepresented populations in the computing research community. This award acknowledges work in areas of government affairs, educational programs, professional societies, public awareness, and leadership that has a major impact on advancing these populations in the computing research community.

CRA Awards Selection Committee:

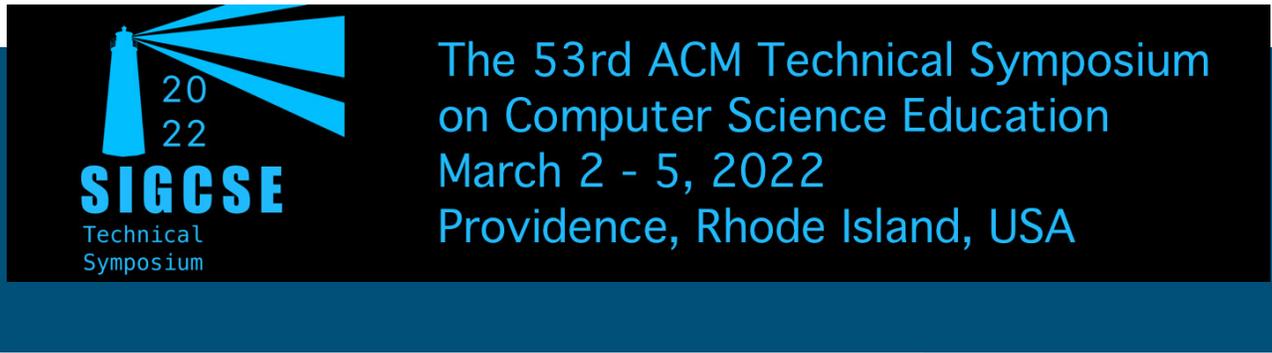
- Diana Franklin (University of Chicago)
- Kim Hazelwood (Meta—Facebook AI Research)
- Timothy Pinkston (University of Southern California), Chair

Expanding the Pipeline: The SIGCSE 2022 Technical Symposium



CRA-WP
Computing Research Association
Widening Participation

By *Patty Lopez, New Mexico State University*



The **SIGCSE 2022 Technical Symposium** was a hybrid event with both virtual and in-person participation in Providence, Rhode Island March 2-5. Across the three conference tracks of Computing Education Research, Experience Reports and Tools, and Position and Curricula Initiatives, there were 144 accepted papers. Additionally, there were 15 panels, 9 special sessions, 24 workshops, 15 papers as part of the ACM Student Research Competition, 34 birds of a feather sessions, 15 demos, 17 lightning talks, 6 nifty assignments, 99 posters, and 29 exhibitors. The *Pathable* platform was used to provide virtual participants access to the conference sessions.

Thursday Plenary: Reflections on Programming Methodology

The plenary session on Thursday was kicked off by ACM Turing Award and Von Neumann Award winner Barbara Liskov (MIT) on "Reflections on Programming Methodology", where she shared her career and a brief history of the field of computing. Barbara got into computing by accident because she could not get a job as a mathematician. While there was no training in CS as there were no CS degrees offered, companies were hiring programmers. She described the software crisis in 1970 - millions of dollars were poured into software development and these efforts failed because people did not understand how to build programs that worked. This led to an examination of programming methodology - how should programs be designed, and how should programs be structured? She listed several foundational papers, and with Sandra Zilles introduced

the notion of abstract data types in order to further work at the highest level to increase programmer productivity, and to enable generic operations such as iteration and sorting to avoid duplicating code to handle each individual data type. These were implemented in the programming language she created at MIT called CLU, an object-oriented programming language that offered clusters for coherent and systematic handling of abstract data types, iterators, exception handling, and polymorphism via generics. When Barbara finished CLU, she was interested in creating a commercial programming language, but these were only done in industry, so she focused on distributed computing, and then moved onto programming methodology with John Guttag. Then came inheritance, classes and subclasses, type hierarchies, and behavioral subtyping, the latter resulting in what came to be known as the Liskov Substitution Principle. A person once wrote a comment wondering why she won the Turing Award for her work on abstract data types, since "everybody knows this anyway". Barbara was pleased to remark that her work and the work of others mentioned in her talk had "coalesced in an understanding of how to build code, and it had become so ingrained in our community that people didn't even understand that there had been a time before when people didn't know how to do this."

When asked about which programming language should be taught as the first programming language and a follow-on question about how hard problems are hard in any language, Barbara felt that the language itself is only a tool - at how to



Expanding the Pipeline *(continued)*

teach programming is more important than the language you teach it with. In terms of how principles of computing should be taught, she thought that it should be computational thinking, which is broader than CS – which is a powerful technique for solving problems. Barbara also believed that team projects were great to provide opportunities to work together and provide some idea of problems they would be working on in the real world, but team dynamics is a challenge and students need support to working together effectively.

First Timer's Luncheon: SIGCSE Overview

The First Timer's Luncheon keynote speakers Sarah Heckman and Mark Sherriff gave an overview on SIGCSE the organization (not the conference)- its mission, membership, and activities. They informed participants about the [CS-Ed podcast](#) hosted by Kristin Stephens-Martinez at Duke University, described the three tracks of papers at the Technical Symposium in greater detail, and the different types of scholarship that each of these areas highlighted. The speakers also shared an [update](#) to the work that began as a project in 2014 to report on the [state of empiricism in computing education](#), where the goal was to create a rubric that characterized the reporting of education research papers and to identify whether publications included the content necessary for researchers to perform replications, meta-analyses, and theory building. The effort was quite comprehensive, and evaluated all published papers from five venues, SIGCSE TS, ITiCSE, ICER, TOCE, and CSE, in 2014 and 2015; they are currently working through all the papers from 2019 and 2020. The good news is that most papers had some sort of evaluation by observation that would lead to further replication or theory building, and while most of the research is focused on pedagogical techniques, there was representation in all categories evaluated. The area least discussed were threats to validity or limitations of the research, which is important so others attempting to replicate the results were able to understand how far to take the results and how to translate into their own contexts. They shared great advice on how to get started, how to identify good research questions, the time required to revise and refine them, how to replicate studies, and how to get more involved in the technical symposium. The speakers also announced the winner of the SIGCSE Lifetime

Service Award as Simon (University of Newcastle, Australia), who will receive the award at ITiCSE.

Friday Plenary: Awards and “Improving Diversity in Computing through Increased Access and Success” Keynote

Friday's plenary session opened with the annual awards and included the award winners from 2021. The SIGCSE 2021 Test of Time Award was given to [“The Incredible Shrinking Pipeline”](#) published in CACM 1997 and authored by Tracy Camp (Colorado School of Mines), which is still the most cited paper on gender issues in undergraduate computing. The 2021 SIGCSE Award for Lifetime Service to the Computer Science Education Community was presented to Stephen Edwards (Virginia Tech) “for innovating automated feedback systems with WebCat, transforming software testing within computer science curricula, and exemplifying leadership in the computer science education research community.” The SIGCSE 2022 Test of Time Award was given to [“Connecting K-16 Curriculum & Policy: Making Computer Science Engaging, Accessible, and Hospitable for Underrepresented Students”](#) authored by Joanna Goode (University of Oregon) and published in the SIGCSE Technical Symposium 2010.

Barbara Ericson received the SIGCSE 2022 Outstanding Contribution to Computer Science Education “For developing, evaluating, and disseminating methods to make computing education more effective, efficient, and accessible, and for national leadership in computing education measurement and public policy”. Her keynote “Improving Diversity in Computing through Increased Access and Success” highlighted her career, from her love of horses, debate, and early exposure to programming in high school, to her first jobs in industry research, and her role as an instructor and senior research scientist at Georgia Tech that led her to pursue a PhD in Human Centered Computing. Barbara shared why diversity, access, and success mattered – from that early high school computer science course, she had access and encouragement, which led to her passion for teacher professional development, the creation of sustainably funded summer camps and weekend workshops, then into curriculum development and programming competitions with Georgia Computes! Through seed funding and



Expanding the Pipeline *(continued)*



Dan Garcia presents award to Barbara Ericson.

training from the NSF BPC alliance they reached 500+ teachers, 1000+ students, and offered 39 weeks of summer camps in 2011 alone. Barbara found that for teacher professional development to be successful, it is important to build community and develop teacher leaders, involve active learning for both teachers and students, and the development of eBooks can make the programs affordable. Barbara began to focus on AP CSA pass rates in Georgia and the challenges became clearer when the data was broken down by race and gender. This led to the creation of Rise Up 4CS, Sisters Rise Up, and Project Rise Up 4CS to serve all underrepresented groups through near peer role models and mentors, remote and in-person help sessions, and interactive eBooks. When she published the AP spreadsheet in 2013, she noted that there were no female students who took the CS AP placement test in Mississippi, Montana, and Wyoming. Barbara partnered with Rick Adrion and Renee Fall to create Expanding Computing Education Pathways, where they took her eBooks, updated and improved them, and delivered them to

Massachusetts students and educators. They shared their work in the [2021 State of Computer Science Education: Accelerating Action Through Advocacy](#) report, noting the tension between serving more students and serving more diverse students and their decision to keep the spotlight on diversity. She found that representation of underrepresented students was not just a problem in CS, but in other areas, and likely a systemic racism issue in the way that schools are funded. Her future plans are to continue to increase access with the creation of more online courses and free and interactive eBooks, and to increase success through increased active learning, mentoring via Sisters Rise Up, and to more readily identify struggling students via careful data harvesting to provide personalized assistance interactively. Responding to a question on the exclusion of non-binary and trans learners, and how to include them in K-12 pathways, she suggested that AP self-reporting should be changed and should happen at the end of the test to avoid invoking stereotype threat.

Saturday Plenary: Diversifying Computing: Reach Change Must Come from Within

The keynote by Shaundra Daily (Duke University), "Diversifying Computing: Real Change Must Come from Within" began with her personal story about four generations of women: Her great-grandmother, grandmother, mother, and herself. She laid out



Shaundra Daily



Expanding the Pipeline *(continued)*

a timeline, beginning with the 13th Amendment, which forbids involuntary servitude or slavery, through the Jim Crow Era that ended in 1954 with the Brown vs. Board of Education decision that desegregated schools, to the Civil Rights Movement and the Space Race. Juxtaposed below was a timeline of her family, from her great-grandmother's life as a sharecropper, her grandmother as a maid, and the limited educational opportunities her mother had in the 1950's as a secretary with a degree in Office Administration. Shaundra noted that the Space Race was coincident with the development of the field of computing, computing culture and computing education, a place where there were few Black engineers and scientists. Active in gymnastics and dance, she had the benefit of a Catholic education because her public high school was an F-zone school.

While not a first-generation college student, Shaundra was first in her family to explore STEM. She was stepping into an institution where the people, policies, and practices were not designed for her with no programming or computing experience, but was expected to know certain things. She hid her life outside of grad school out of fear of misperceptions of her intelligence. Shaundra recognized the weed-out and competitive culture, the disconnect between her desire to teach kids about computers and her engagement with her community as a part of herself she could not bring into the classroom, and the limited views on acceptable research. She remembered that a professor told her that if you get a PhD, then nobody can tell you what to do, so she went for it not really knowing what that meant.

Shaundra wanted to apply her engineering skills to education, so she left her PhD program with a Masters and went to MIT and became part of an exciting community that included dance, sensors on students, coding and how it all came together to solve problems. As a graduate student, there was no flexibility for severe illness during pregnancy, no maternity leave, no livable stipend, and a lack of affordable childcare even when she could find it. While there, she developed many coping strategies to deal with the culture.

Shaundra shared a list of obstacles for students, faculty, and people entering the tech industry that contribute to the often-

hostile culture that people in marginalized groups encounter. She described her work with the [Alliance for Identity Inclusive Computing Education](#), whose vision is to increase the entry, retention, and course/degree completion rates of students from groups that are historically underrepresented in computing, and closed with this call to action:

"All of these thoughts make it clear that in addition to the narrow path to computing, there is a fundamental misunderstanding of our identities and also our humanity. And we all have to take responsibility for examining the gaps and the weaknesses in our own understanding of identity. This is a process of not only learning but also unlearning, and we all have to make room for people to make mistakes and recover from them. And I hope we can use the lessons learned to change our policies, to change our practices, and to change ourselves so we are no longer negatively impacting people that are in our classrooms, that are in our departments, that are in our schools, that are in our institutions and are in our world, broadly. If you don't know where to start, listen to Black women, listen to Indigenous women, listen to Latina women, listen to Asian women, listen to queer researchers, listen to trans researchers, listen to disability researchers, listen to the people who have these lived these experiences and are telling us that it's not okay. Listen up. We're telling you what's wrong, so hear us. And don't just stop at hearing us, use your privilege, use your power, use your influence to make sure that the computing community of 2023, of 2027, of 2035, when my children and my friends' children are entering your institutions, are not met with the same obstacles, and harm, and difficulties, that we're meeting with today."



Expanding the Pipeline *(continued)*



Symposium Committee for SIGCSE TS 2022. Left to right: Brian Dorn, Judy Sheard, Larry Merkle, Kristin Stephens-Martinez, Leen-Kiat Soh, and Maureen Doyle.

About the author:

Dr. Patty Lopez is currently an Intel Encore Computer Science Fellow at New Mexico State University (NMSU), a Hispanic Serving Institution where she is a distinguished alumna. Prior to her role at NMSU, she spent 13 years as a Platform Application Engineer at Intel and 19 years as an imaging scientist and software developer at Hewlett-Packard. Patty has seven patents and over 20 years of experience in diversity and inclusion work. She is a member of the CRA-WP Board, the Computing Alliance for Minority Participation Board, and the National Academy of Sciences, Engineering, and Medicine's Roundtable on Systemic Change in Undergraduate STEM Education.

Photos courtesy of coleImage.com Cole Rodger Photographic

Best Practices on Using the Cloud for Computing Research Workshop



CRA-I

Computing Research Association
Industry

By Helen Wright, CRA-I Senior Program Associate

The Computing Research Association's newest committee, Computing Research Association-Industry, held their first workshop at the end of March on *Best Practices on Using the Cloud for Computing Research*. It brought together 30 participants in a hybrid format in Washington, DC from industry, academia, and government. This workshop was based off of a **very successful September 2021 roundtable event**, in which over 50 members of the community attended. The goal of the workshop was to continue the momentum from the roundtable and identify best practices on using the cloud to enhance computing research. Discussions focused on three different areas: research, collaboration, and education/workforce development.

The cloud has forever changed how computing research is performed. Research methods will have to change, rather than having the cloud conform to current research methods. Data is being shared at a greater rate than ever before. The participants agreed that these changes should be embraced and encouraged. The public clouds should be leveraged. With the expansion of cloud computing, there will be heterogeneity of requirements and resources that different clouds will specialize in. These should be embraced, since requirements vary due to the nature of research. A single cloud will not meet the needs of all. A hybrid cloud or multiple cloud idea is promising, but given the nature of data and the great expansion that all fields are going at, it will not be enough.

Cutting-edge collaborative research in many domains is impossible without access to large datasets found in the cloud. These include healthcare data, large code repositories, large language repositories, scientific datasets, etc. Participants talked about how collaborations in the cloud can enhance research by performing data analysis and computations tasks, which in turn reduces redundancy. It is important to share these interactions to facilitate subsequent research and new discoveries. This is also true for collaborations around code. There are many examples of commercial, academic, and government open source code contributions that relate to cloud computing. Finally, collaborative services, such as Google Scholar, GitHub,



Globus, Overleaf, GradeScope, are not only convenient but allow the research community to grow. More collaborative resources should be incentivized and hopefully developed.

Finally, it is clear that there are multiple opportunities related to education and the cloud. On the one hand, the cloud can be used to enhance education, and on the other, there is an urgent need for educators to prepare the future workforce for careers in a cloud-centric industry. The workshop participants talked about how the cloud is a democratizer since it makes an experience uniform and equal among students in a classroom. During the height of the COVID-19 pandemic, the cloud enabled education to continue via hybrid and/or remote modes. It allowed for easy collaboration among students and gave access to specialized resources that may not be available at many educational institutions. The continued adoption of the cloud in classes at the institutional level will provide better scale and



Using the Cloud *(continued)*

sustainable support over the long term for multiple types of applications and uses (virtual desktops, VMs, cloud services). At the same time, there is a major gap between the cloud-related skills needed in the 21st century and the computing foundations currently taught in academia. As a result, academia should provide incentives for faculty to develop cloud-related courses, industry should provide course development grants related

to cloud computing, and the government should continue to support cloud-based curriculum development.

More details from the workshop will be shared in the forthcoming report. Please keep an eye on [the website](#). If you are interested in participating in future CRA-Industry events, [please let us know](#).

Virtual Roundtable on Building Stronger Regional Academia-Industry-Government Computing Research Partnerships



CRA-I

Computing Research Association
Industry

The **Computing Research Association-Industry** Committee is delighted to announce an upcoming virtual Roundtable on **Building Stronger Regional Academia-Industry-Government Computing Research Partnerships** on **Wednesday, April 27th from 3:00-4:30 PM ET.**

Regional hotspots for innovative and high impact computing research, including the Boston area and Silicon Valley, are iconic. But how did these regions develop as they did and what are key elements in the collaboration between academia, industry, and government that make them successful?

In this roundtable, CRA-Industry will convene computing research partners across academia, industry, and government from Atlanta, Georgia to understand elements of successful approaches and to discuss the value of partnerships and best practices leading to success. Questions that will be considered include:

- What kinds of connections with local universities benefit industry computing research the most?
- What university or government initiatives are likely to lead to successful partnerships with local industry?
- Is computing research an element of successful partnerships with companies other than tech companies?
- How might universities increase computing research partnerships with non-tech companies?
- What are the greatest obstacles to forming strong AIG partnerships and how can we avoid them?
- How do partnerships differ between regions?
- What is the best way to engage local government (or federal programs) in such partnerships?

Confirmed speakers include Erwin Gianchandani (National Science Foundation Senior Advisor for Translation, Innovation, and Partnerships), Charles Isbell (Dean of Computing and The John P. Imlay Jr. Chair at Georgia Tech), Phyllis Schneck (Vice President and Chief Information Security Officer for Northrop Grumman) and Peter M. Williams (Director of Community Strategy & Engagement for BlackRock Atlanta). Read [more about them here](#).

Please register here if you are interested in joining the webinar.



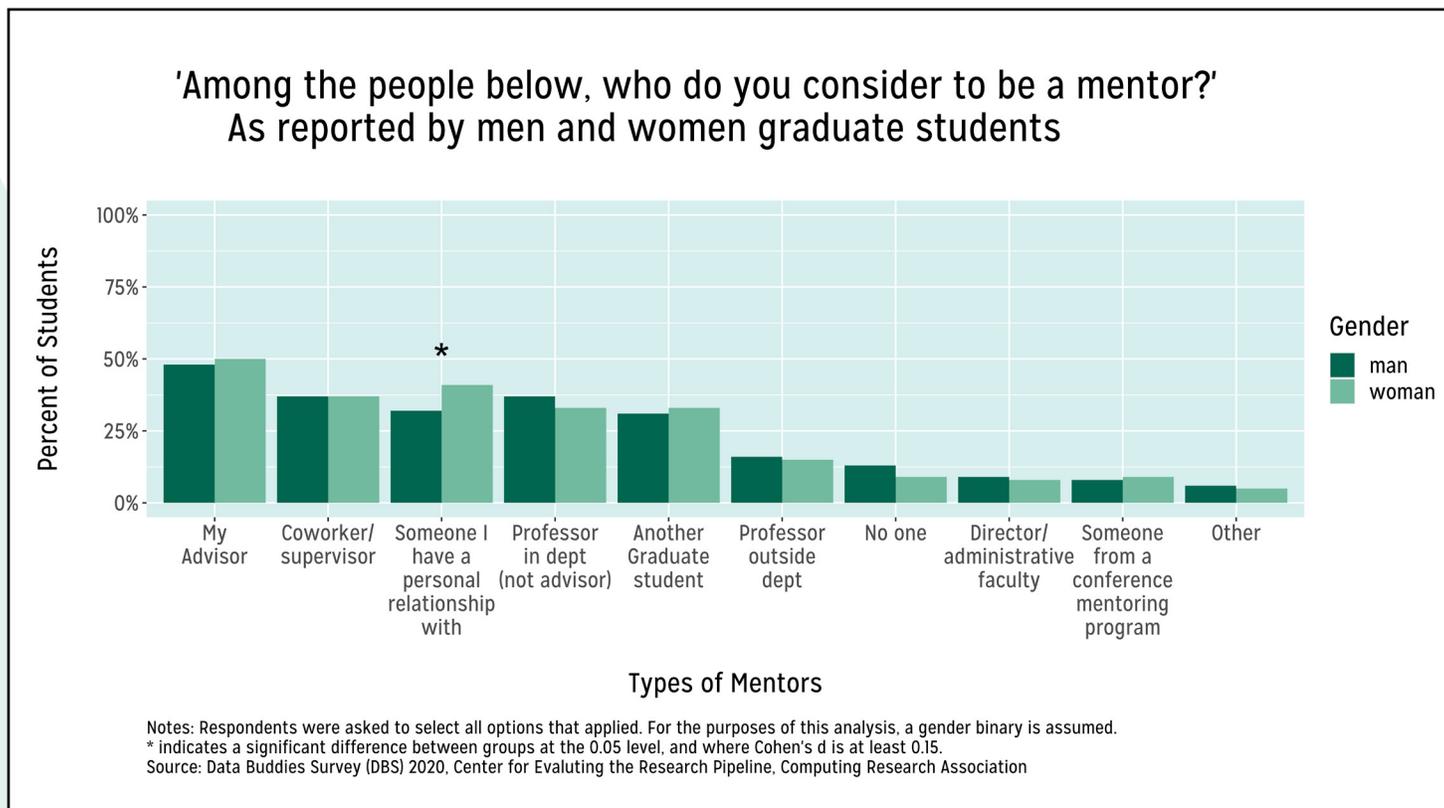
Who do Men and Women Graduate Students Consider to be Their Mentors? An Analysis Revisited.



CERP

Computing Research Association
Evaluation

By Evelyn Yarzebinski, CERP Senior Research Associate



In a [prior CERP Infographic](#), CERP analyzed where graduate students reported finding their mentors from Fall 2018 Data Buddies Survey (DBS). CERP recently revisited that analysis to determine whether those findings were present for graduate students who responded to the Fall 2020 DBS. This included summarizing common sources of mentors and performing independent-samples t-tests to reveal whether there are any differences between where women and men graduate students find mentors.

As shown in the plot, men (N = 1,954) and women (N = 986) graduate students report similar rates of mentors from academic settings; about half of men and women consider their advisor to be a mentor. Similar to responses from the

Fall 2018 DBS, women reported higher rates of mentorship through personal relationships (M = 0.41, SD = 0.49) than men did (M = 0.32, SD = 0.47); $t(1,884) = -4.79, p < 0.001$. Cohen's d = 0.19. Diverging from prior significant Fall 2018 DBS results, men and women graduate students who responded to Fall 2020 DBS reported similar numbers of mentors, as well as similar rates of finding mentors from a conference mentoring program or not having a mentor at all.

While some results from Fall 2018 DBS were not observed in Fall 2020 DBS data, it is interesting to see the sustained result of mentorship via personal relationships differing by gender. This continuing result calls for further analysis with new DBS data in future years.



Mentors *(continued)*

Notes:

The survey data represented in this infographic comes from the options for the 2020 DBS question “Who do you consider to be a mentor?”. Graduate students were able to select one or more of the following options: A professor within my department (not my advisor); A professor outside of my department; Someone I met at a conference or mentoring program sponsored by an outside organization (or other professional activity); No one; Someone else; My advisor; A graduate student (e.g., graduate teaching/research assistant, graduate student mentor); A coworker, supervisor, or someone else with whom I have a professional relationship; A family member, partner, friend, religious leader, or someone else with whom I have a personal relationship; A Director or administrative faculty.

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](#). You can join Data Buddies [here](#).

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

CSGrad4US: Second Year Call for NSF Fellowship Opportunity for CS Bachelor's/Master's Degree Holders to Return for PhD



The National Science Foundation (NSF) Computer and Information Science and Engineering (CISE) Directorate has announced the second year of the **CSGrad4US Graduate Fellowship program**.

Goal and Motivation

To increase the number of diverse, domestic graduate students pursuing research and innovation careers in the CISE fields. The fellowship program, 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 CISE fields, 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 Computer Science graduating has decreased from 69% in 1985 to 37% in 2018 [1].

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.

Benefits

- A year-long preparation program, organized by CRA-E and CRA-WP, in which individuals selected for the Fellowship will receive mentoring support in identifying a graduate program, finding a research mentor, and applying to graduate programs; during

this year, the individuals will also have opportunities to form a network with one another and with faculty advisors;

- For those who enroll in an accredited doctoral degree-granting program at an institution of higher education having a campus located in the United States, its territories or possessions, or the Commonwealth of Puerto Rico, an annual stipend of \$34,000 for three years out of five; and
- Cost-of-education allowance of \$12,000 per year for the three years noted above to the institution of higher education.

Timeline and Eligibility

The 2022 solicitation has expanded the eligibility rules. In particular, applicants must have graduated with a bachelor's degree in a CISE field before June 30, 2021, and can have received an MS degree. Applications for the CSGrad4US Graduate Fellowship are due May 19, 2022.

Please visit <https://www.nsf.gov/cise/CSGrad4US/> for all eligibility criteria and additional details and deadlines.

Help us publicize this unique opportunity by...

- Forwarding this email to your faculty and alums
- Posting on your Social Media

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



CCC

Computing Community Consortium
Catalyst

CCC Releases “Meta Hybrid” Report Out

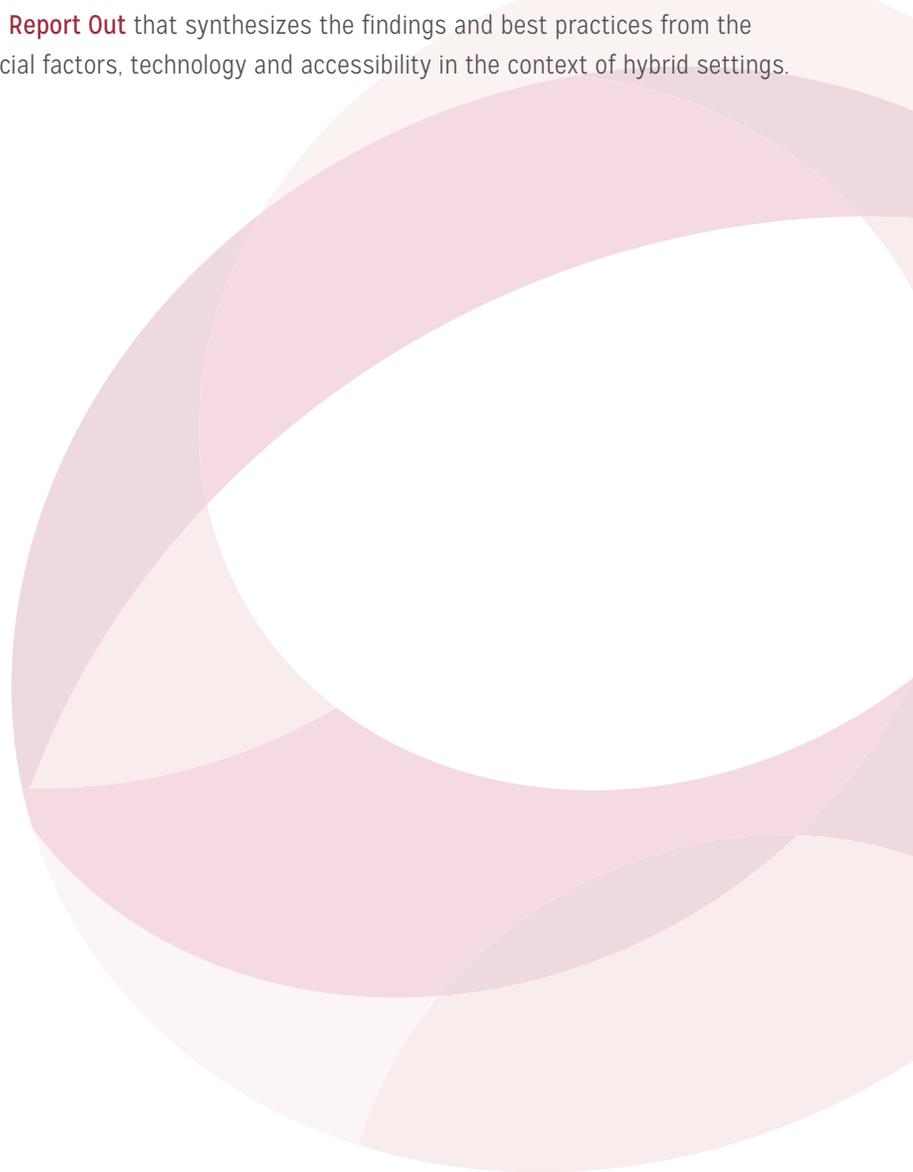
By Catherine Gil, CCC Program Associate

The Computing Community Consortium (CCC) sponsored a hybrid workshop “**Best Practices for Hybrid Workshops**” where around 30 participants from the fields of academia, industry, and government were given the opportunity to discuss the costs, benefits, and risks of Hybrid conferences, which have become increasingly prevalent since the beginning of Covid-19.

Organized by **Sujata Banerjee** (VMware), **Maria Gini** (University of Minnesota), **Daniel P. Lopresti** (Lehigh University), and **Holly Yanco** (University of Massachusetts Lowell), this workshop focused on discussing the increased inequities introduced by hybrid conferences, such as difficulties for visually and verbally impaired individuals to follow presentations, the loss of social interaction between conference participants, and problems with incompatible technologies, such as outdated software on participants’ computers.

We are very pleased to release the **Meta Hybrid Visioning Report Out** that synthesizes the findings and best practices from the visioning activity. The report focuses on sustainability, social factors, technology and accessibility in the context of hybrid settings.

You can view the full report [here](#).



Submit a Proposal for the 2023 AAAS Annual Meeting



CCC

Computing Community Consortium
Catalyst

By Maddy Hunter, CCC Program Associate

After two years of being virtual, the American Association for the Advancement of Science (**AAAS**) is thrilled to announce the 2023 AAAS Annual Meeting will be held in person March 2-5, 2023 in Washington D.C. AAAS is the world's largest multidisciplinary scientific society dedicated to the advancement of science for societal good and each year they hold a Annual Meeting featuring lectures, flash talk sessions, e-poster presentations and international exhibit hall to bring together experts from a broad range of disciplines to discuss new research and developments in science, technology and policy.

The theme for next year is *Science for Humanity* and will aim to highlight groundbreaking multi-disciplinary research that advances knowledge and responds equitably to the needs of humanity. The Computing Community Consortium (**CCC**) has attended and hosted sessions since 2013. You can find out more about the CCC's past contributions on our [website](#).

They have just **announced** they are now accepting proposals for the following 2023 meeting sessions:

- **Scientific Session Panels** Experts from different facets of the science and technology community assemble to compare notes during discussions about groundbreaking multi-disciplinary research that advances knowledge and responds to the needs of society. Accepted panelists will record a 10-15-minute spotlight video introducing key data and findings they will highlight in the panel conversation.
- **10-Minute Lightning Talks** These live in-person short presentations offer individuals the opportunity to offer data and insights on any sci/tech topic relevant to those attending the AAAS meeting—discoveries, innovation, or policy.
- **Workshops** These instructional or informational sessions will highlight opportunities or resources available to enhance or augment careers paths or advocacy efforts.

Proposals are due before June 16th, 2022.

Community Response to RFI on Incentives, Infrastructure, and Research and Development Needs to Support a Strong Domestic Semiconductor Industry



CCC

Computing Community Consort
Catalyst

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By Haley Griffin, CCC Program Associate

The Computing Community Consortium (CCC) with input from **CRA-Industry** recently **responded** to the Department of Commerce and the National Institute of Standards and Technology's **Request for Information on Incentives, Infrastructure, and Research and Development Needs to Support a Strong Domestic Semiconductor Industry**. The RFI was seeking information in order to inform the planning and design of potential programs to: Incentivize investment in semiconductor manufacturing facilities and associated ecosystems; provide for shared infrastructure to accelerate semiconductor research, development, and prototyping; and support research related to advanced packaging and advanced metrology to ensure a robust domestic semiconductor industry.

This response was written by Tom Conte (Georgia Tech), Nadya Bliss (Arizona State University), Ian Foster (University of Chicago), William Gropp (University of Illinois), Brian LaMacchia (Microsoft Research), Vivek Sarkar (Georgia Tech), and Cliff Young (Google).

This report emphasizes that computing applications should have an equal part in influencing decisions about semiconductor technology and investment with a particular focus on the need to achieve this balance in implementation of the *Semiconductor Financial Assistance Program*, (Section 9902 of the *William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021*). They focus on driving applications in computing, broadly, as the areas of artificial intelligence, high-performance computing, experimental scientific computing, and security. The authors address this need in the context of the National Semiconductor Technology Center. In addition, the response provides input on fostering collaboration and dealing with intellectual property.

The response effort was led by the CCC's **Weird Ways to Compute Task Force** that focuses on activities related to the development of future computing architecture and systems, in order to achieve major goals such as overcoming **the end of Moore's Law** and improving **high performance computing systems**.

Read the full report [here](#).

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Alejandra Guzman, Senior Program Associate, CRA-WP
Jill Hallden, Senior Grant Specialist
Peter Harsha, Interim Executive Director, Senior Director of Government Affairs
Maddy Hunter, Program Associate, CCC
Sabrina Jacob, Senior Administrator for Membership and Advertising
Kristi Kelly, Senior Research Associate, CERP
Roohia Meer, Program Assistant, CERP
Brian Mosley, Senior Policy Analyst
Taniya Ross-Dunmore, Research Assistant, CERP
Erik Russell, Director of Programs
Shar Steed, Senior Communications Specialist
Burçin Tamer, Director, CERP
Heather Wright, Associate Director, CERP
Helen Wright, Senior Program Associate, CRA-Industry
Evelyn Yarzebinski, Senior Research Associate, CERP

Column Editors

Expanding the Pipeline
Soha Hassoun, Tufts University
Patty Lopez, New Mexico State University

Amherst College

Visiting Assistant Professor of Computer Science

The Amherst College Department of Computer Science invites applications for a full-time position at the rank of visiting assistant professor, beginning on July 1, 2022. This is a one-year appointment, with possible renewal for two additional years. The teaching responsibility is two courses per semester.

Within the last decade, Amherst College has profoundly transformed its student body in terms of socioeconomic status, ethnicity, race, and nationality. Today, nearly one-quarter of Amherst's students are Pell Grant recipients; 43 percent of our students are domestic students of color, and 10 percent of our students are international students.

The successful candidate must have a Ph.D. in hand or have fulfilled all requirements for the degree by the start of the appointment. We seek a colleague who is committed to excellence in undergraduate computer science education and who is comfortable teaching courses in a variety of areas.

Amherst College is located in Western Massachusetts, about two hours drive from Boston and three hours from New York City. The College is part of the Five College Consortium, which supports collaborations with nearby Hampshire, Mount Holyoke, and Smith Colleges, and with the University of Massachusetts. Students and faculty enjoy top-notch

computing facilities, including technology-equipped classrooms, multimedia laboratories, and a high-performance computing cluster.

Applicants are asked to apply electronically to <https://apply.interfolio.com/104034>. Please send a cover letter, curriculum vitae, three confidential letters of recommendation, and a brief teaching statement, which should include a description of applicants' teaching experience and a discussion of what courses they feel prepared to teach.

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

Amherst College is an equal opportunity employer and encourages persons of all genders, persons of color, and persons with disabilities to apply. The college is committed to enriching its educational experience and its culture through the diversity of its faculty, administration, and staff.

For questions, contact the department chair, Prof. Scott Kaplan, at sfkaplan@amherst.edu.

Arizona State University

Lecturer (all ranks) – Computer Science

School of Computing, Informatics, and Decision Systems Engineering

The School of Computing and Augmented Intelligence (SCAI) in the Ira A. Fulton Schools of Engineering at Arizona State University (ASU) seeks applicants for

multiple full-time lecturer positions beginning August 2022. This position is in primary support of the Computer Science and Engineering programs, but lecturers are expected to support the instructional mission of all SCAI programs. This is a non-tenure track appointment with a fixed term academic year contract. Appointments will be made at the rank of Principal Lecturer, Senior Lecturer or Lecturer commensurate with the candidate's experience and accomplishments.

Application deadline is April 4, 2022. 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. For complete qualification/application information, see <https://hiring.engineering.asu.edu/>.

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

A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other basis protected by law.

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

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

COVID-19 Vaccination - Arizona State University is a federal contractor and subject to federal regulations which may require you to produce a record of a COVID-19 vaccination. For questions about medical or religious accommodations, please [visit the Office of Diversity, Equity and Inclusion's webpage](#).

Augusta University

School of Computer and Cyber Sciences

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

The School of Computer and Cyber Sciences at Augusta University invites applications for ten tenure-track/tenured faculty positions at all ranks in the following disciplines: computer science, cybersecurity, data science, information technology, and information systems. Hiring will continue on a rolling basis until positions are filled. Reach out to ccs@augusta.edu if you have questions.

The School was founded in 2017 with the mission to provide high-engagement, state-of-the-art education, and research across its Computer Science, Information Technology, and Cybersecurity disciplines,

and with the vision of becoming a national leader in Cybersecurity. The School is undergoing an unprecedented transformation and growth, starting the year 2022 with 35 faculty, as we are becoming a comprehensive research college with national prominence, matching Augusta University's designation as Georgia fourth comprehensive research university. The school offers degrees at Doctoral, Masters and Undergraduates levels. The school has a rapidly increasing research momentum with more than 5 million dollars of new funding from NSF, DOD, and NSA within the past 18 months.

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

Augusta University has embarked on an ambitious, multi-year effort to significantly expand its computing, cybersecurity, and data science activities. Information about the school and a description of open positions are available on the school website at <http://www.augusta.edu/ccs>.

Applicants must hold a PhD in Computer Science, Information Systems, or a related discipline at the time of appointment. The ideal candidate will demonstrate the potential for sustained research excellence as well as a commitment to quality in undergraduate and graduate education. The target appointment date is Fall 2022.

To be considered as an applicant, candidates must apply via the Augusta University job board at <https://www.augusta.edu/hr/jobs/university/>. When applying, click external applicants and in the search bar, type the following job id:234632.

Augusta University, a unit of the University System of Georgia, is an equal opportunity educational institution and is an equal opportunity/affirmative action employer.

Australian National University

Tenure Track Faculty

The School of Computing at The Australian National University (ANU) seeks applicants to fill several tenure track faculty positions in all areas of computer science. ANU expects, rewards, and supports a strong primary commitment to excellence in teaching, and is committed to building a diverse and inclusive community. ANU provides attractive benefits and excellent support to maintain a healthy work/life balance.

We are also committed to supporting the next generation of women in leadership through the Pioneering Women Fellowship scheme. This scheme is open

to women who are successful in their application to the School of Computing tenure track program.

For a detailed position description and to apply, please visit <https://jobs.anu.edu.au/en/job/540228>.

Bentley University

Tenure Track Assistant/Associate Professor, User Experience

Summary:

Bentley University invites applications for a tenure-track position in the areas of user experience, human-computer interaction (HCI), product design, or related fields (e.g., psychology, social psychology, cognitive science) to start in fall 2022. We seek a creative scholar who would join the interdisciplinary faculty of Bentley's internationally renowned user experience graduate program, and whose research and teaching interests are aligned with one or more of the following areas of expertise: voice user interfaces (VUIs), conversational AI (chatbots, virtual assistants, virtual agents), natural language processing (NLP), conversational interfaces or related areas. We are also open to candidates from industry in these areas.

As guided by our Academic Affairs Diversity, Equity, & Inclusion Strategic Plan, Bentley University seeks to enhance our faculty capacity in the scholarship, pedagogy, and engagement related to diversity, equity, inclusion, and justice. To achieve that, we are hiring a cohort of new faculty in multiple academic

departments and disciplines with expertise in DEI. This position is intended to be part of our DEI faculty cohort, which will enrich our DEI expertise across Business and the Liberal Arts & Sciences. To learn more about Bentley University's DEI strategic plan, please visit: https://issuu.com/bentleyuniversity/docs/de_i_strategic_plan_presentation_1.pptx

The reputation of our graduate program is grounded in educating leaders in user experience research and design. Central to our program's success is the strong connections it has forged with leading technology groups throughout the United States and internationally. We support that network with programs on our main campus, San Francisco and online. Further reinforcing this reputation is our well-known User Experience Center, a research and consulting group contracting with tech organizations around the world. Finally, most of our classes have research and design problems sponsored by startups, non-profit organizations, and large tech companies. Being part of a business university, our graduate program has a strong focus on the strategic role of the user experience in the competitive positioning of products in the marketplace and fostering continuous product innovation.

Bentley University is an AACSB and EQUIS accredited business university located 11 miles outside of Boston. Bentley leads higher education in the integration of global business with the arts and sciences. We seek faculty and staff who

represent diverse backgrounds, interests, and talents. We strive to create a campus community that welcomes the exchange of ideas and fosters a culture that values differences and views them as a strength in our community.

Candidates are encouraged to learn more about our UX community at Bentley by visiting <https://admissions.bentley.edu/graduate/masters-in-human-factors>.

Minimum Qualifications:

A Ph.D. is required. Candidates must have evidence of research ability and experience with teaching.

Special Instructions to Applicants:

Applicants should submit a CV, cover letter and research statement at <https://bentley.wd1.myworkdayjobs.com/faculty>. Applicants should also include a diversity statement describing how they would contribute to developing an equitable and inclusive community in the department and University through their teaching, research, and service. Names and contact information for three references will be required upon application. Bentley will contact these confidential references for those candidates moving forward in the process.

Binghamton University

Lecturer Computer Science

The Department of Computer Science, located within the Thomas J. Watson College of Engineering at Binghamton University invites applications for two full-time lecturer appointments to contribute

to the newly established Information Systems program. The successful candidate will teach required and elective graduate courses in the Information Systems program in both laboratory and lecture settings. Courses will focus on Applied Data Science, Cybersecurity, and Web-Based Information Systems.

Binghamton University is one of four research universities in the State University of New York System and an RI research institute. The Computer Science Department has well established Ph.D. and M.S. programs and an accredited B.S. program.

Applicants with a Ph.D. degree in Information Systems, Computer Science, or a related field by appointment date, are strongly preferred. Applicants with a master's degree, along with significant industrial experience in Information Systems, Computer Science, or a closely related field, with additional professional certifications, will also be considered. Applicants must demonstrate the ability to teach effectively.

[Apply here](#)

Boston Children's Hospital/ Harvard Medical School

*CHIP/Harvard Postdoctoral Fellow, clinical
Natural Language Processing*

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

answer important questions about human health and disease.

Required qualifications:

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

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

Guergana Savova (guergana.savova@childrens.harvard.edu) and

Timothy Miller (timothy.miller@childrens.harvard.edu)

Boston University's Metropolitan College

Assistant Professor of Computer Science

Boston University's Metropolitan College seeks two dynamic and creative faculty members with expertise in data analytics or software development to join its nationally recognized Department of Computer Science (<http://www.bu.edu/csnet/>) at the rank of Assistant Professor starting July or September 1, 2022.

The Department is a leader in providing rigorous and industry-relevant education in areas such as information security, computer networks, computer information systems, financial informatics, digital

forensics, and health informatics. Courses are offered in flexible face-to-face, blended and online formats. It offers the acclaimed Boston University online Masters in Computer Information Systems program, ranked as the 8th best online IT program by US News & World Report 2021. The department believes that the cultural and social diversity of our faculty, staff, and students is vitally important to the distinction and excellence of our research and academic programs. To that end, we are especially eager to have colleagues who support our institutional commitment to ensuring BU is inclusive, equitable, and diverse join our ranks.

Qualifications: The successful candidates must hold a Ph.D. or equivalent degree in Computer Science or a related field, and have a demonstrated successful teaching and research record. We welcome applications from candidates with a terminal degree who have extensive professional and industry experience as well as an interest in teaching and applied research.

Responsibilities: Faculty duties include teaching up to six courses at the graduate and undergraduate levels per academic year, including blended and online courses, conducting active research, participating in course and curriculum development, and mentoring part-time faculty and students, as well as providing service to the department, college and the university. These are both full-time, non-tenure track appointments at the rank of Assistant Professor, each with a 2-5 year renewable contract.

The faculty positions offer significant opportunity for interdisciplinary and collaborative scholarly work, including research and curriculum development within Metropolitan College and Boston University, as well as the greater Boston area.

Salary: Commensurate with experience.

Application: Applicants should submit a cover letter stating career objectives, suitability for the position, research goals, and approach to teaching, as well as a curriculum vitae, and three letters of reference, preferably via the application link below. Candidates who, within their application materials, substantively address their experiences, strengths, and opportunities for growth regarding diversity, inclusivity, and full participation at Boston University will receive the highest priority/consideration. Applications will be reviewed as received until the position is filled.

Submit applications online:

<https://www.bu.edu/csnet/careers/assistant-professor/>

Department Contact:

Ms. Kimberly Crosta
Director of Program Administration
Department of Computer Science
Boston University Metropolitan College
1010 Commonwealth Avenue
Boston, MA 02215
kimrich@bu.edu

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

orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

Carleton College

Visiting Assistant Professor

The Department of Computer Science at Carleton College invites applications for two full-time Visiting Assistant Professor positions for the 2022-2023 academic year, with the possibility of renewal. We are also open to part-time or part-year appointments.

View the full job posting <https://careers.carleton.edu/en-us/listing/>

Clemson University

Assistant/Associate Professor Faculty Position in Computer Science

The School of Computing at Clemson University invites applications for a tenure-track faculty position at the assistant/associate level, to join the Computer Science division, starting in Fall 2022. We seek candidates that enhance and complement our current research strengths in the broad areas of Systems and Networking. Our targeted growth in this area is part of a broader hiring initiative at Clemson that encompasses AI, cybersecurity, sensors, and autonomy.

Applicants should indicate their research specialties and interests in their cover letter. Vita, statements on teaching,

research, and a Justice, Equity, Diversity, and Inclusion (JEDI) Statement including the description of the candidate's experience mentoring diverse individuals and/or how the candidate plans to contribute to the inclusive excellence of the School and the contact information for our system to secure three confidential reference letters should be submitted at <http://apply.interfolio.com/102020>.

Clemson University

Post-Doctoral Fellow

The School of Computing at Clemson University is seeking a highly motivated and collaborative postdoc with demonstrated skills in virtual reality and/or graphics. The postdocs will mainly work on the development of a Forest Digital Twin to help forest managers and policymakers to predicate and understand forest states under the impact the climate changes. The postdoc could participate in and/or further develop our long-term efforts on climate-smart forestry.

Applicant should submit their application at <https://apply.interfolio.com/103274>.

Application review begins immediately.

Colby College

Visiting Assistant Professor

Colby College invites applications for a one-year full-time Visiting Assistant Professor position in Computer Science, to start on September 1, 2022.

For more information and to apply, please see <https://cs.colby.edu/Colby-CS-VAP-2022.pdf>.

Colby College

*Postdoctoral Associate /
Visiting Assistant Professor*

The Davis Institute for Artificial Intelligence at Colby College invites

applications for a postdoctoral associate / visiting assistant professor.

For more details and to apply, please visit: <https://apply.interfolio.com/101863>.



COLGATE UNIVERSITY

Application Integration Developer (flexible/remote eligible)

We seek a collaborative and creative developer to join Colgate's Information Technology team to further integrate our application integrations and work on exciting development projects. Immediately after being hired this position will be involved in helping Colgate select and implement an Integration Platform as a Service (iPaaS). Once trained on the selected iPaaS solution this position will have the opportunity to work on integration projects with a variety of technologies, including Oracle and SQL Server databases, UiPath robotics process automation (RPA), OnBase workflow processing, and a range of software APIs. This position will also have the opportunity to become knowledgeable in Ellucian Banner, Blackbaud Raiser's Edge NXT, Slate Admission and other third-party SaaS and on-premise software applications by building and supporting integrations.

While candidates with experience in some of the above technologies are preferred, we are also happy to consider recent graduates with a thirst for development and an ability to provide proven project work as a developer.

Flexible and remote work options are available for this position, although we do our best to provide an office environment that is inviting, diverse, professional, comfortable and fun.

Within Information Technologies Services (ITS) we have working groups that focus on creative technologies, diversity and inclusion, accessibility and fun. Staff members are welcome to find working groups of interest to them and get involved. ITS staff also participate on a variety of University committees

Salary will be commensurate with the experience and abilities of the candidate.

To view a full position description and/or to apply to this position, go to <https://apptrkr.com/2858340>

College of the Holy Cross

*Full-Time Visiting Faculty Position in
Computer Science*

The Department of Mathematics and Computer Science at the College of the Holy Cross invites applications for a visiting full-time faculty position in computer science for the 2022-2023 academic year. Candidates in all areas of computer science are encouraged to apply. Commensurate with experience, visiting faculty will teach at introductory, intermediate, or advanced levels. Visiting full-time faculty teach 3 courses each semester and are eligible for travel support and reimbursement of relocation costs within the College's published policies. All full-time appointments offer competitive salaries and include full benefits. The College seeks faculty members whose scholarship, teaching, and service demonstrate commitment to the educational benefits of a richly diverse community. While a Ph.D. in computer science or a closely related field is preferred, candidates with a MS or equivalent degree in computer science or related field, who are ABD, or who have professional experience are strongly encouraged to apply.

Review of applications will begin immediately. Questions may be directed to Kevin Walsh, kwalsh@holycross.edu.

For more information and to apply, visit: <https://apply.interfolio.com/102091>

The College is an Equal Employment Opportunity Employer and complies with all Federal and Massachusetts laws concerning equal opportunity and affirmative action in the workplace.

Georgia Tech

Lecturer or Senior Lecturer

The Division of Computing Instruction (DCI) within Georgia Tech's College of Computing invites applications for multiple full-time and long-term teaching-track faculty positions at the rank of Lecturer or Senior Lecturer. Primary responsibilities will include but not be limited to providing high-quality classroom teaching. In particular, the Lecturer is expected to teach two to three sections (max two preps) of undergraduate classes per semester. Opportunities to teach graduate courses are also possible but will depend on the candidate's background.

Candidates will be matched to courses for which they are best fit. Available course areas include introductory programming, architecture, theory, artificial intelligence, machine learning, software engineering, and entrepreneurship. DCI also runs our College's dynamic capstone design program, and lecturers can engage as mentors or instructors for the associated courses.

This is a 9-month renewable contract that would start on or by Fall 2022. Summer teaching for additional compensation is typically available.

Qualified applicants will be invited to interview and give a sample lecture. Email the following address with your CV to start the application process: dcirecruiting@cc.gatech.edu

About Georgia Tech:

Georgia Tech is a top-ranked public research university situated in the heart of Atlanta, a diverse and vibrant city with great economic and cultural strengths. The Institute is a member of the University System of Georgia, the Georgia Research Alliance, and the Association of American Universities. Georgia Tech prides itself on its technology resources, collaborations, high-quality student body, and its commitment to diversity, equity, and inclusion.

The College of Computing at the Georgia Institute of Technology (GT Computing) is a national and world leader in the creation of real-world computing breakthroughs that drive social and scientific progress. Our undergraduate program is ranked #5 and our graduate program #8 in the country by US News and World Report. GT Computing includes more than 170 faculty members in the schools of Computational Science and Engineering, Computer Science, Interactive Computing, and Cybersecurity and Privacy. Those faculty teach more than 15,000 students, including more than 10,000 in our groundbreaking Online Master's of Science in Computer Science (OMSCS) program. With an unconventional approach to education, GT Computing is defining the new face of computing by expanding the horizons of traditional computer science students through interdisciplinary

collaboration and a focus on human-centered solutions. For more information about GT Computing, its academic divisions, and research centers, please visit <http://www.cc.gatech.edu>.

Interested applicants may apply [here](#)

Grinnell College

Assistant Professor (2-year, Open)

The Department of Computer Science invites applications for a 2-year appointment beginning Fall 2022. Assistant Professor (Ph.D.) preferred; Instructor (ABD) or Associate Professor possible. Candidates with research and teaching interests in any area of Computer Science are encouraged to apply. Candidates with degrees in closely-related fields who have relevant experience will also be considered. Candidates are expected to describe the ways they can support and engage with students and colleagues from historically underrepresented or marginalized groups.

Grinnell College is a highly selective undergraduate liberal arts college with a strong tradition of social responsibility. In letters of application, candidates should discuss their potential to contribute to a college community that maintains a diversity of people and perspectives as one of its core values.

To be assured of full consideration, all application materials should be received by March 25, 2022.

Please visit our application website at <https://jobs.grinnell.edu> and the



Founding Tenured/Tenure-Track Faculty

The Hong Kong University of Science and Technology (HKUST) is a leading international university ranked 1st by Times Higher Education Young University Rankings 2020 and 27th by QS World University Rankings 2021. HKUST establishes a new campus in Guangzhou, China (hkust-gz.edu.cn). The Guangzhou campus synergizes with and maintains the same academic standard as the Clear Water Bay campus. Microelectronics Thrust is an academic department in the Guangzhou campus and focuses on integrating novel electronic and photonic devices into circuits, architecting information systems, and automating their designs and optimizations.



Microelectronics Thrust has multiple tenured/tenure-track positions at the ranks of Assistant Professor, Associate Professor, and Professor. Applicants should have a PhD degree and research in areas such as:

- Compilation techniques; operating system; system software
- Processor, memory, and storage system architecture; reconfigurable architecture; interconnection network; multiprocessor
- HPC and data center; embedded system; system-on-chip; system-in-package; quantum computing; neural computing; approximate computing; power management; thermal management
- Electronic design automation; photonic design automation; hardware-software codesign; modeling and simulation technology
- RF/mm-Wave/terahertz technology; integrated photonic circuit; memory device; quantum device; emerging technology

English is the instruction and administration medium at the Guangzhou campus, and a good command of written and spoken English is required.

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

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

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



Department website at <https://www.cs.grinnell.edu> to find more details about the job and submit applications online. Candidates will need to upload a letter of application, curriculum vitae, undergraduate and graduate transcripts (copies are acceptable), a research statement, a statement of teaching philosophy, and a statement describing how the candidate can support diversity in the department, College, and discipline. Candidates must also provide email addresses for three references. Questions about this search should be directed to the search chair, Professor Peter-Michael Osera, at CSSearch@grinnell.edu or 641-269-3169.

Grinnell College is committed to establishing and maintaining a safe and nondiscriminatory educational environment for all College community members. It is committed to a policy of nondiscrimination in matters of admission, employment, and housing, and in access to and participation in its education programs, services, and activities. The college does not discriminate on the basis of race, color, ethnicity, national origin, age, sex, gender, sexual orientation, gender identity or expression, marital status, veteran status, pregnancy, childbirth, religion, disability, creed, or any other protected class.

An offer for this position will be contingent on successful completion of a background check.

Iowa State University

Assistant Teaching Professor of Computer Science

The Department of Computer Science in the College of Liberal Arts and Sciences at Iowa State University is accepting applications for a term faculty position at the rank of Assistant Teaching Professor.

Responsibilities will include instruction in computer science courses, mainly at the undergraduate level, and may include lectures in a large classroom setting and supervision of teaching assistants who would cover smaller hands-on lab sections.

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 and an M.S. degree in Artificial Intelligence. 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 Computer Science department has 38 faculty professionals, 723 B.S. students, 56 M.S. students, and 152 Ph.D. students.

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.

To apply for this position and for more information see https://isu.wdl.myworkdayjobs.com/en-US/IowaStateJobs/details/Assistant-Teaching-Professor-in-Computer-Science_R7803?jobFamilyGroup=ad349100dff401ea127be90a060a22e3.

To ensure full consideration of your application, please submit all materials no later than April 15, 2022. Please send an email to cs-search@iastate.edu with any questions.

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.

Kent State University

Kent State University has the following employment opportunities.

Faculty Non-Tenure Track-9 Mo- Psychology- [Job #994271] – Stark Campus – North Canton, OH Opportunity Kent State University at Stark invites applicants for a full-time Non-Tenure-Track, nine-month,



SCHOOL OF ENGINEERING AND TECHNOLOGY

INDIANA UNIVERSITY–PURDUE UNIVERSITY
Indianapolis

Purdue School of Engineering and Technology, IUPUI
Lecturer of Computer and Information Technology

The Purdue School of Engineering and Technology, Indiana University–Purdue University at Indianapolis (IUPUI) invites applications for one lecturer in the area of Information Technology. The anticipated start date is August 1, 2022.

The position will focus on teaching computer and information technology courses and coordinating a number of Networking courses. Experience with curriculum development and/or preparation of high school students for college is an advantage. We are particularly interested in applicants who have teaching experiences in cybersecurity, and/or networking systems.

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

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

Please see details with further information:

Apply for this position at <https://indiana.peopleadmin.com/postings/12495>

IUPUI is an Equal Opportunity/Affirmative Action educator and employer and affords reasonable accommodations to persons with disabilities.

faculty position as a Lecturer/Assistant Professor of Psychology to begin Fall 2022. Minimum Qualifications: Ph.D. in Experimental Psychology is required at time of employment. Other degrees (e.g., counseling) will not be considered.

Faculty Non-Tenure Track-9 Mo - Computer Science - [Job #987954]

- Stark Campus - North Canton, OH Opportunity Kent State University at Stark invites applications for a full-time, nine-month, Non-Tenure Track, position in Computer Science starting Fall 2022. Minimum Qualifications: A Ph.D. in Computer Science or closely related field with evidence of scholarship and

teaching excellence required. ABD's will be considered.

For a complete description of these positions and to apply online, visit our Jobsite at <https://jobs.kent.edu>

Equal Opportunity / Affirmative Action Employer / Disabled / Veterans

Lawrence Berkeley National Lab

Scientific Machine Learning Postdoctoral Fellow - 94834

Lawrence Berkeley National Lab's (LBNL) Machine Learning and Analytics Group in the Scientific Data Division has an opening for a Scientific Machine Learning Postdoctoral Fellow to join the team.

In this exciting role, you will conduct fundamental and applied research in scientific machine learning, as well as related areas including randomized matrix algorithms, graph algorithms, stochastic optimization, and/or high-performance computing.

[Apply here](#)

Lehigh University

Teaching Position in Data Science

The P.C. Rossin College of Engineering and Applied Sciences at Lehigh University seeks to fill an open-rank, non-tenure track instructional position in Data Science to start in Spring or Summer 2022. Rank at hire (e.g., Teaching Assistant Professor, Teaching Associate Professor, Teaching Professor, or Professor of Practice) is dependent upon experience. The candidate will join a growing interdisciplinary group of faculty members at Lehigh University with teaching and research interests in Artificial Intelligence, Computer Vision, Data Mining, Machine Learning, Signal Processing and Optimization, among others.

Summary of Position: The successful candidate will teach a variety of data science courses in the P.C. Rossin College of Engineering and Applied Sciences, as well as work with the director and other faculty of the data science program on policy decisions, program development, and building relationships with industry partners. This position carries additional leadership opportunities in the newly established Master's Program in Data Science.

Qualifications: Applicants must either have a doctorate degree in a field relevant to data science (e.g., computer science, electrical engineering, and mathematics) or a Master's degree with at least three years of data science teaching or industrial experience. Successful candidates will also demonstrate a clear commitment to students and learning and have the potential to contribute to and enhance diversity, equity, and inclusion (DEI) programs and activities.

Applicants should apply at <https://academicjobsonline.org/ajo/jobs/20915>

Candidates should provide the following (i) a Cover Letter; (ii) a full Curriculum Vitae (CV); (iii) a Teaching Statement that describes their instructional philosophy and courses they would want to teach and/or develop; and (iv) a Diversity, Equity, and Inclusion (DEI) Statement that describes prior DEI experience and the candidate's vision for enhancing community and culture at Lehigh; and (v) the names, affiliations, and email addresses for three references. Any inquiries regarding this search should be directed via email to Prof. Daniel P. Robinson, Chair of the Search

Committee (daniel.p.robinson@lehigh.edu) with a subject line of "Teaching Position in Data Science".

Milwaukee School of Engineering

Computer Science (CS) / Software Engineering (SE) Faculty

The Electrical Engineering and Computer Science (EECS) department at the Milwaukee School of Engineering (MSOE) seeks applicants to fill a computer science (CS) / software engineering (SE) faculty position at any rank, starting in fall of 2022. MSOE expects, rewards, and supports a strong primary commitment to excellence in teaching. Faculty enjoy small class sizes and hands-on labs as well as continuous improvement and sustained professional development. Among the department's strengths are strong partnerships with numerous businesses and academic institutes, which guide applied projects, undergraduate research, and curriculum development.

For a detailed position description and to apply, please visit <http://jobs.localjobnetwork.com/j/64160321>.

MSOE is an Equal Opportunity Employer & Educator.

Mount Holyoke University

Computer Science Visiting Lecturer Position

The Mount Holyoke College Computer Science Department seeks a two-year

Visiting Lecturer to begin Fall 2022. The teaching load is 5 courses per year, which may be divided between courses and lab sections. We are searching broadly for candidates with a strong commitment to excellence in teaching computer science and a passion for engaging a diverse population of undergraduate students. Completion of an advanced degree in Computer Science or a related field is expected prior to or shortly after the date of hire; strong candidates with a Master's degree will be considered.

Review of applications to begin March 20; submit applications via:

<https://careers.pageuppeople.com/1024/cw/en-us/job/492924/visiting-lecturer-in-computer-science>

National Institutes of Health

Department of Health and Human Services

Director, National Center for Biotechnology Information (NCBI)

NLM Associate Director for Scientific Data Resources

National Library of Medicine, National Institutes of Health

The National Library of Medicine (NLM) seeks an innovative leader to serve as the Director, *National Center for Biotechnology Information (NCBI)* and NLM Associate Director for Scientific Data Resources (ADSDR). This position offers an exciting opportunity for a creative, forward-

thinking individual to provide scientific and operational leadership to a key node in the digital biomedical ecosystem, overseeing research, development, and deployment of advanced computational solutions to meet life science information needs and facilitate open science and scholarship through a growing array of data, literature, and other information products and services made available by NLM. Leading some 700 federal and contract employees with a budget of about \$150 million, s/he works closely with other members of NLM leadership, other federal agencies, and the biomedical research community to understand and address priorities from molecular biology to public health. As a member of NLM Leadership, the incumbent also participates in the advancement of the NLM mission, and authoritatively represents NLM and NIH on matters related to advanced computer technology in support of biomedical discovery and scholarly communication. The successful candidate will create a standard for a workforce characterized by diversity and demonstrated equity and inclusiveness.

LOCATION: Bethesda, MD or Nationwide

REQUIRED QUALIFICATIONS: The successful candidate will be a recognized leader in the development, delivery, use, and analysis of large-scale biological data repositories and resources in support of scholarly communication. Personal scholarly contributions to related technical or biological disciplines must be balanced with proven ability to manage a large workforce to deliver high-value data resources in a safe, secure manner 24 hours a day 7 days a week. The ideal candidate has advanced preparation (MD

or PhD or equivalent doctoral preparation) in biological, computational, or information sciences, or a related discipline with a strong computational and biological focus. Demonstrated experience in defining technical requirements for biological science information needed for planning, implementing, and evaluating large-scale information technology resources, including cloud-based platforms and distributed networks, is essential. Ability to perceive and prepare for technological trends, negotiate data sharing and data protection agreements relevant to biological data sharing, and a proven track record of progressive executive leadership over a scientific, technical, and administrative workforce are key to success in this position. Experience in establishing trans-government, transnational, and public-private partnerships to advance computational support for the biomedical sciences and health is highly-desired. Demonstrated contributions to equity, diversity, inclusion, and accessibility is required.

SALARY/BENEFITS: The incumbent will be appointed at a salary commensurate with his/her qualifications and experience and NIH salary guidelines. Full Federal benefits will be provided, including retirement, health and life insurance, long term care insurance, leave, and savings plan (401(k) equivalent).

EQUAL OPPORTUNITY EMPLOYMENT: Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, sexual orientation, national origin, political affiliation, marital status,

disability, age or membership or non-membership in an employee organization. The NIH encourages the application and nomination of qualified women, minorities, and individuals with disabilities.

STANDARDS OF CONDUCT/FINANCIAL

DISCLOSURE: The NIH inspires public confidence in our science by maintaining high ethical principles. NIH employees are subject to Federal government-wide regulations and statutes, as well as agency-specific regulations described at <http://ethics.od.nih.gov/default.htm>. We encourage applicants to review this information. The position is subject to a background investigation and requires the incumbent to complete a public financial disclosure report prior to the effective date of the appointment.

FOREIGN EDUCATION: Applicants who have completed part or all of their education outside of the U.S. must have their foreign education evaluated by an accredited organization to ensure that the foreign education is equivalent to education received in accredited education institutions in the United States. **We will only accept the completed foreign education evaluation.** For more information on foreign education verification, visit the National Association of Credential Evaluation Services (NACES) website. **Verification must be received prior to the effective date of the appointment.**

REASONABLE ACCOMMODATION: NIH provides reasonable accommodations to applicants with disabilities. If you require reasonable accommodations during any

part of the application and hiring process, please notify us. The decision on granting reasonable accommodation will be made on a case-by-case basis.

HOW TO APPLY: Applicants must submit a letter of interest of no more than three pages that addresses the applicant's: 1) vision for NCBI as a digital biomedical ecosystem, including vision and ability to develop and deploy computation and data resources, 2) vision of NCBI as a key global actor in the future of open science and data and information services, and 3) qualifications for this position, including prior experience in managing large resources and a diverse workforce. In addition please include a current curriculum vitae, and the names of three references by the end of 4/23/22. **Please include in your CV a description of your mentoring and outreach activities, especially those involving women and persons from racial/ethnic or other groups that are underrepresented in biomedical research.** Applications should be sent to:

NLM NCBI Director Search Committee
c/o Troy Pfister
Building 38A, Room 4N401Q8
8600 Rockville Pike
Bethesda, MD, 20894
troy.pfister@nih.gov

DO NOT INCLUDE YOUR BIRTH DATE
OR SOCIAL SECURITY NUMBER ON
APPLICATION MATERIALS.

DHHS AND NIH ARE EQUAL
OPPORTUNITY EMPLOYERS

Nazareth College

*Director ~ Institute for Technology,
Artificial Intelligence, and Society (ITAS)*

Nazareth College invites accomplished leaders with technology sector experience to join the Institute for Technology, Artificial Intelligence, and Society (ITAS). Launched in 2021, the mission of ITAS is to build on Nazareth's highly regarded, integrative approach to liberal arts and professional education to develop a pipeline of students well-prepared to help shape a future tech sector that embodies ethics, inclusion, and social justice. This is a tenure-eligible position open to applicants from any applicable academic discipline and of any rank.

The ITAS Director will provide strategic vision for establishing the institute as a leader in educating, debating, and advancing solutions for the ethical design, development, and deployment of technologies in society and at work. Central to our vision is a director with a demonstrated commitment to diversity, equity, inclusion, and social justice as they intersect with the use of advanced technologies, with a particular emphasis on algorithms, machine learning, and artificial intelligence.

Please apply at
<https://jobs.naz.edu/postings/2816>

NYU Tandon

Contract Faculty

The Department of **Computer Science and Engineering** at the NYU Tandon School of Engineering invites applications for three full time, non-tenured, renewable faculty positions in **Computer Science**, at the level of Industry Assistant Professor or Industry Associate Professor, with start dates of **September 1, 2022** or **January 2, 2023**.

Qualifications

We invite applicants for classroom teaching in all areas of Computer Science, including a broad range of undergraduate and graduate courses, including, but not limited to algorithms, software engineering, artificial intelligence, machine learning, databases, operating systems, and security. You should be an excellent teacher with substantial experience. At least an MS degree or equivalent in Computer Science or a closely related discipline is required. A Ph.D. degree in **Computer Science** or a closely related discipline is a strong advantage, as is a record of industrial experience, but neither is necessary.

Application Instructions

Please submit the following materials electronically:

- Cover letter
- Current CV
- Teaching statement

- A statement of your experience with or knowledge of *inclusion, diversity, equity, and belonging efforts* and your plans for incorporating them into your teaching, research, mentoring, and service.
- Teaching evaluations from students (if available)
- Teaching evaluations from peers (if available)
- Teaching portfolio, such as sample assignments
- Names and contact information for three references

Apply Here: <https://apply.interfolio.com/104142>

We will review applications as they arrive and will continue until we fill the position. We encourage you to submit early. Should you have any questions please contact Jeff Epstein at jeff.epstein@nyu.edu.

About Us

New York University (NYU) is one of the top private universities in the United States. NYU Tandon has an illustrious past as Brooklyn Poly and NYU Polytechnic School of Engineering. Our mission is to excel in research, teaching and entrepreneurship. We aim to inspire and educate engineers for the 21st century. NYU Tandon faculty are world renowned leaders in science and technology, with a strong commitment to research, innovation, and entrepreneurship that make a difference in the world. With NYU's unrivaled global network of campuses, we promote a truly global engineering

education. We are deeply committed to teaching and learning, and we lead in online education and in K-12 STEM outreach. Our students conduct Vertically Integrated Research projects and participate in an extensive undergraduate summer research program.

The Department of Computer Science and Engineering offers BS degrees in **Computer Science and Computer Engineering**, MS degrees in Computer Science, Computer Engineering, Cybersecurity, Cybersecurity Risk and Strategy, and a PhD degree in Computer Science. NYU Tandon is committed to substantially increase the proportion of our faculty from historically underrepresented groups in STEM and we encourage candidates from such groups to apply. We aspire to create a climate where diversity and inclusion are not only appreciated but considered an asset for creativity and innovation, and we seek faculty who have a real passion for a culturally diverse environment. We take pride in our high numbers of female students and students who are the first in their family to go to college. Tandon belongs to the Higher Education Recruitment Consortium (HERC), which assists with dual-career searches, and our faculty are supported by a range of services and programs provided by the [NYU Office of Work Life](#).



Tenure Track Faculty at Golisano College of Computing & Info Sciences

Tenure Track Faculty
6491BR

Golisano College of Computing & Info Sciences
GCCIS - Software Engineering

Faculty Type (Tenure Status): Tenured

Faculty Discipline: Software Engineering, Data Science

Faculty Rank: Associate Professor

Employment Category: Full Time

Anticipated Start Date: 10-Aug-2022

Detailed Job Description:

The Department of Software Engineering in the Golisano College of Computing and Information Sciences (GCCIS) at the Rochester Institute of Technology (RIT) in Rochester, NY, invites applications for a full-time, tenured Associate Professor in Software Engineering and/or Data Science with interest in a three-year, renewable appointment as the Graduate Program Director.

Founded in 1829, Rochester Institute of Technology is a diverse and collaborative community of engaged, socially conscious, and intellectually curious minds. Through creativity and innovation, and an intentional blending of technology, the arts and design, we provide exceptional individuals with a wide range of academic opportunities, including a leading research program and an internationally recognized education for deaf and hard-of-hearing students. Beyond our main campus in Rochester, New York, RIT has international campuses in China, Croatia, Dubai, and Kosovo. And with nearly 19,000 students and more than 135,000 graduates from all 50 states and over 100 nations, RIT is driving progress in industries and communities around the world.

The Department of Software Engineering is home to the BS and MS in Software Engineering, as well as the MS in Data Science. As an Associate Professor, the candidate will be expected to contribute to their Software Engineering and/or Data Science community in research, teaching, and service. A reduced load is available during the period of the administrative appointment. The Graduate Program Director responsibilities include academic advising of graduate students, leadership of curriculum evolution, and interacting with a variety of RIT organizations such as the Registrar, International Student Services, and Graduate Admissions. A Senior Staff Assistant supports the administrative tasks of the Graduate Program Director.

The position will start no later than August 10, 2022. A Summer 2022 contract is negotiable in order to insure a smooth transition into the Graduate Program Director position.

Successful candidates will have the ability and interest in contributing to RIT's core values, honor code, and diversity commitment.

Department/College Description

The University:

Rochester Institute of Technology is a diverse and collaborative community of engaged, socially conscious, and intellectually curious minds. Through creativity and innovation, and an intentional blending of technology, the arts and design, we provide exceptional individuals with a wide range of academic opportunities, including a leading research program and an internationally recognized education for deaf and hard-of-hearing students. We are dedicated to building a diverse community, one where employees feel a sense of belonging, and are valued for their contributions and the perspectives they bring.

As a member of the RIT community, you'll receive a comprehensive employee https://www.rit.edu/fa/humanresources/sites/rit.edu/fa/humanresources/files/docs/Benefits_at_a_Glance.pdf that offers multiple options and access to additional employment advantages. You can tailor your benefit elections to meet your needs (affordable medical/dental/vision benefits; paid vacation/sick time/retirement saving plan with exceptional employer match; and tuition assistance for you and your family, to name a few).

The College:

The Golisano College of Computing and Information Sciences is home to the departments of Computer Science, Software Engineering, Computing Security, School of Information, and the School of Interactive Games and Media. The college's PhD program in Computer and Information Sciences was ranked 68th in the U.S. News and World Reports 2021 ranking of Best Doctoral Computer Science Programs. The college has 140 faculty and more than 3,600 undergraduate and 950 graduate students. RIT is an interdisciplinary research hub, with research groups and communities encompassing a range of domain areas, including the Global Cybersecurity Institute (<https://rit.edu/cybersecurity>), RIT's Personalized Healthcare Technology initiative (<https://pht.rit.edu>), the Center for Human-Aware Artificial Intelligence (<https://rit.edu/cha>), the Center for Advancing STEM Teaching, Learning and Evaluation (<https://rit.edu/castle/>), the Media Arts Games Interaction Creativity (MAGIC) Center (<https://magic.rit.edu>), the Center for Computational Relativity and Gravitation (<https://ccrg.rit.edu>), the Golisano Institute for Sustainability (<https://rit.edu/sustainabilityinstitute/>).

The Department:

The Department of Software Engineering (<https://se.rit.edu>) was the first in the nation to offer a BS in Software Engineering. Our student-centered programs are home to over 775 students pursuing the BS in SE, MS in SE, and MS in Data Science degrees. Student employment rates upon graduation are over 98%, often with leading tech firms where they have developed groundbreaking technology such as the Xbox 360 Kinect and jQuery. Students at all levels have the opportunity to participate in research projects.

Faculty research areas include all areas of software engineering; software security; computational social science; human-ai teaming and environmental surveillance prediction. There are many opportunities for interdisciplinary research throughout the college and university. Our faculty routinely publish their results at top conferences (ICSE, FSE, ASE) and are recognized with distinctions such as the NSF CAREER Awards, and ACM SIGSOFT Distinguished Paper Awards.

Additional Information:

RIT recognizes the need for dual career assistance within the university as a means of continuing to build an inclusive campus environment and to support the university's goals to attract and retain the highest quality candidates for full-time tenure-track faculty positions. Our Dual Career program supports this goal by providing assistance to spouses/partners of eligible newly hired full-time tenure-track faculty who are relocating to the Rochester area. Further information can be found at <https://www.rit.edu/provost/dual-career-program>.

Required Minimum Qualifications:

- Ph.D. in software engineering, computer science, or related computing or math discipline
- Interest in a three-year, renewable administrative appointment as the Graduate Program Director
- Evidence of research, teaching, and service contributions commensurate with the rank of Associate Professor
- Academic specialization or industry experience
- Ability to teach undergraduate and graduate courses across the software engineering curricula
- Ability to lead in the development and integration of curricula or industry management
- Excellent written and oral communication skills
- Ability to contribute in meaningful ways to RIT's continuing commitment to cultural diversity, pluralism, and individual differences

Required Application Documents:

Cover Letter, Curriculum Vitae or Resume, List of References, Research Statement, Statement of Teaching Philosophy

Apply Online at: <https://apptrkr.com/2867770>

How To Apply:

Please submit your application, curriculum vitae/resume, cover letter addressing the listed qualifications, and upload the following attachments:

- Teaching statement including the courses from our curriculum you are able to teach,
- Research statement highlighting your research contributions and directions,
- The names, addresses, and phone numbers for three references.

You can contact the search committee with questions on the position by contacting Mehdi Mirakhorli at mxmve@rit.edu.

Review of applications will begin immediately and will continue until acceptable candidates are found.

Additional Details:

RIT does not discriminate. RIT is an equal opportunity employer that promotes and values diversity, pluralism, and inclusion. For more information or inquiries, please visit RIT/TitleIX or the U.S. Department of Education at ED.Gov.

Pennsylvania State University

*Postdoctoral Researcher in
Computational Biology*

Please see details at: <https://sites.psu.edu/mxs2589/positions/postdoc>

Saint Louis University

Teaching Faculty

The Department of Computer Science at Saint Louis University invites applicants for non-tenure-track and visiting faculty positions to begin in August 2022. Non-tenure-track faculty are expected to contribute toward teaching a diverse portfolio of inclusive classes at the undergraduate and possibly graduate level. These positions include opportunity for long-term career development and advancement in rank. A successful applicant must possess an M.S. or Ph.D. in computer science or closely related field.

For more details and instructions on how to apply, please see: <https://cs.slu.edu/hiring>

Sandia National Laboratories

Job 681127, R&D Computer Science

Sandia National Laboratories' Computer Science Research Institute (CSRI) invites applications for a research scientist or engineer with an emphasis on artificial intelligence (AI), machine learning (ML), and data science (DS). We seek candidates with proven academic credibility, technical leadership, and dedication to team-based innovation and entrepreneurship. The

selected applicant can be a virtual worker located in any U.S. State or District of Columbia. Regular or periodic travel to your assigned work location may be required.

We are looking for people to join us in solving real-world problems with real-world data. Successful candidates will demonstrate interest in translating fundamental research into practical solutions to challenging problems of national importance. CSRI staff combine fundamental research with innovative technology development to support a broad range of applications in the national interest. Examples range from physics and data-driven modeling and simulation for advanced engineering to sensor data analysis for nonproliferation to network data analysis for cyber security applications.

To apply, please visit: <https://sandia.jobs/albuquerque-nm/rd-computer-science/54BC3A3097574FEDB420IDCCD110C5F1/job/>

Seoul National University

*Tenure-Track/Tenured Professors in
Computer Science and Engineering*

The Department of Computer Science and Engineering at Seoul National University, invites applications for tenure-track or tenured positions in the following fields:

- Foundation of computer science including theory of computation, algorithms, and so on.
- Computer Graphics
- Artificial Intelligence
- Computer Network
- Computer Security and emerging technologies

Applicants should have (i) a Ph.D. degree at the time of application; and (ii) a good scholarly record demonstrating (potential for) teaching and research excellence.

The Department of Computer Science and Engineering at Seoul National University, with its 35 internationally renowned faculty members and high-tech facilities, provides a world-class learning and research environment for over 400 undergraduate and 350 graduate students. Many of our professors conduct state-run large, long-term research projects, leading South Korea's future in computer technology. They also collaborate with the industry in many joint projects that apply the latest technologies in the real world. In addition, many professors and graduates are successfully creating startups with innovative ideas and technologies. Furthermore, as Korea's top educational institution, we place an emphasis on educating our students to become global leaders, as we want our students to become more than just computer scientists.

Applicant(s) need to submit a full CV, copies of academic credentials, research achievement list, details of courses taught and evaluation results (if available) and a research plan. After the first screening step, formal application process will be started, which would two or three letters of recommendation, in addition to the application form.

Please submit your application package by April 15 to recruit@cse.snu.ac.kr.

If you have any inquiry, mail to recruit@cse.snu.ac.kr.

Simon Fraser University

*Director - School of Engineering Science
(Associate or Full Professor)*

Simon Fraser University (SFU) is recognized globally for academic and research excellence. It is ranked as Canada's top comprehensive university and its vision is to be Canada's most engaged university. SFU has three vibrant campuses located on the unceded territory of the Coast Salish peoples, on whose traditional territories its campuses stand, in British Columbia's largest municipalities - Burnaby, Surrey and Vancouver - and deep roots in partner communities throughout the province and around the world. By recognizing these unceded territories, SFU aspires to create space for reconciliation through dialogue and decolonizing practices.

The School of Engineering Science currently has 28 faculty members, 120 graduate students, and more than 1100 undergraduate students. The school strives for excellence in its researchers and facilities, and seeks to train high-quality students. The School of Engineering Science has most recently been home to the Natural Sciences and Engineering Research Council (NSERC) Chair for Women in Science and Engineering, BC/Yukon Region. Current Faculty expertise is as follows: Information and Communications Technology, including electronics, computers, signal theory and processing, communications, radar, deep learning, and sensing; Biomedical Engineering including imaging; Systems including robotics; and Engineering Physics.

Reporting to the Dean of the Faculty of Applied Sciences, the Director is responsible for the day-to-day academic and strategic activities of the School. A commitment to leadership, collaboration, and staff development is essential for a role of this magnitude. The Director will amplify the School's mission of performing innovative, translational research and entrepreneurship, as well as fostering the School's relationship with industry and community engagement. The Director will likewise oversee the strategy and development of new educational programs, certificates, and training to help our undergraduate and graduate students succeed in a changed and changing world.

The School Director is a term position with an initial appointment of five years that may be renewable for a subsequent term. The successful candidate must be appointable in a discipline within the School of Engineering Science to a tenured position at the level of Full Professor, and would resume regular full-time professorial duties upon the conclusion of their appointment. Associate Professors with exceptional leadership experience inside or outside the university sector are also encouraged to apply.

The ideal candidate will:

- Provide proactive leadership and operational management of the school, creating an environment that encourages innovative teaching and fosters internationally recognized research;
- Develop and deploy new initiatives that enhance Engineering Science's domestic and international standing

while improving relationships with relevant government agencies, businesses, professional bodies and the wider community;

- Promote collaboration within the school and drive engagement with partners across the Faculty, throughout the University, and with other academic institutions;
- Create a compelling strategic vision for the school that engages academic and non-academic colleagues, students and industry partners to strive for excellence in all activities;
- Support the University's Strategic Vision, which pledges SFU to "foster a culture of inclusion and mutual respect, celebrating the diversity reflected among its students, faculty, staff, and our community."

The ideal candidate is expected to possess and demonstrate the following qualifications:

- A Ph.D., and ongoing engagement, in fundamental engineering research areas that relate to the School's research activities;
- Have an outstanding personal research record of accomplishment and international profile;
- Demonstrated leadership and administrative qualities;
- Ability to balance both teaching and research initiatives of the School;
- Proven excellence in developing and teaching engineering courses at the undergraduate and graduate levels;

- Excellent communication skills and commitment to a team based working culture;
- Enthusiastic about supporting students and student initiatives, as well as engaging with them directly;
- Demonstrated commitment to diversity, equity, and inclusion;
- Eligibility to register as a Professional Engineer with Engineers and Geoscientists of British Columbia within one year of assuming the position.

The competition will remain open until the position is filled. However, screening will commence March 1st, 2022.

To apply, submit the following to our online application system: <http://www.sfu.ca/engineering/job-postings.html>

- A recent curriculum vitae,
- Research and teaching statements,
- A vision statement,
- Names and contact information for three referees.

We thank all applicants for their interest; however, only short-listed candidates will be contacted.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

Simon Fraser University is an institution whose strength is based on our shared commitments to diversity, equity, and inclusion. Diversity is an underlying principle of our Strategic Vision, which pledges SFU to “foster a culture of inclusion and mutual respect, celebrating the diversity reflected among its students,

faculty, staff, and our community.” SFU is committed to ensuring that no individual is denied access to employment opportunities for reasons unrelated to ability or qualifications. Consistent with this principle, SFU will advance the interests of underrepresented members of the work force, specifically Indigenous peoples, persons with disabilities, racialized persons, and women; embrace gender and sexual diversity; ensure that equal opportunity is afforded to all who seek employment at the University; and treat all employees equitably. Candidates that belong to underrepresented groups are particularly encouraged to apply.

SFU offers several benefits and services aimed at creating a more inclusive and accessible campus community for faculty, please see the Faculty Relations, Benefits and Service page for more details. SFU is also committed to ensuring that the application and interview process is accessible to all applicants; if you require accommodations or have questions about SFU benefits, services, accommodations policies, or equity considerations please contact the Director of Equity, Diversity and Inclusion in Faculty Relations.

Under the authority of the University Act personal information that is required by the University for academic appointment competitions will be collected.

For further details see: http://www.sfu.ca/vpacademic/Faculty_Openings/Collection_Notice.html

Smith College

Visiting Assistant Professor of Computer Science

The Department of Computer Science at Smith College invites applications for a one-year, benefits eligible position, at the rank of Visiting Assistant Professor, to begin July 1, 2022. The successful candidate will be prepared to teach five courses per year. A Ph.D. or all-but-dissertation in computer science is required by the time of appointment.

Candidates from groups underrepresented in the sciences are encouraged to apply.

Details about the Department of Computer Science may be found at <http://www.cs.smith.edu/>.

For more information and to apply, at <http://apply.interfolio.com/102767>.

Review of applications will begin on March 11, 2022.

EO/AA/Vet/Disability Employer.

Stevens Institute of Technology

Fall 2022 - Teaching-track Faculty Positions in Systems & Enterprises

The School of Systems and Enterprises (SSE) at Stevens Institute of Technology invites applications for teaching-track faculty positions, starting Fall 2022 or on a mutually agreed upon date. Successful teaching faculty will contribute to a dynamic and growing educational program in the areas of engineering management, systems engineering, software

engineering, complex systems, and underlying enabling technologies, such as machine learning and data engineering. The individual is expected to deliver a first-class teaching experience that offers undergraduate and graduate students an exceptional, practice-based, and research-supported education that translates immediately into expertise that students can take to the workplace.

Job Duties

Faculty duties include teaching at the undergraduate and graduate levels, advising and mentoring graduate students, conducting externally-funded research, as well as contributing to service to Stevens and to the professional community.

Basic Qualifications

- Applicants must possess a doctoral degree in a related engineering or science discipline prior to commencement of employment.
- At least five years of relevant teaching or related instructional experience in a university or comparable setting.
- At least five years of relevant industry-based professional expertise that translates into educating students for the workplace.
- Experience with advising and/or mentoring desirable.
- Excellent oral and written communication skills.

SSE Submission Guidelines

To apply, please submit your package as a single PDF file that contains your

curriculum vita, research statement, teaching statement, and contact information for 3 references online at [Stevens/SSE Career Opportunities](#). If you have any questions, please direct your inquiries to Prof. Onur Asan at ooasan@stevens.edu.

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

About the School

The School of Systems and Enterprises (SSE) at Stevens Institute of Technology is a leading institution in systems innovation and research located in Hoboken, New Jersey, a vibrant city with a population of 54,000 on the Hudson River directly across from New York City. Ranked amongst the top graduate programs in Industrial, Systems, and Software Engineering by the US News and World Report, faculty in SSE embrace diverse careers with both academic and industry experience. Stevens Institute of Technology is an Equal Opportunity Employer. SSE is home to the Systems Engineering Research Center (SERC), a University-Affiliated Research Center of the US Department of Defense that leverages the research and expertise of senior lead researchers from 22 collaborator universities throughout the United States. The School of Systems and Enterprises at Stevens values diversity and seeks candidates who can contribute to a welcoming climate for students of all races and genders. Stevens is committed to equitable practices and policies. We strongly encourage qualified women and minority candidates to apply.

Stevens Institute of Technology

Lecturer Position, School of Systems and Enterprises

The School of Systems and Enterprises (SSE) at Stevens Institute of Technology invites applications for a 9-month lecturer position, starting Spring 2022. Successful candidates will contribute to a dynamic and growing educational program in the areas of software engineering and complex systems, and underlying enabling technologies, such as machine learning, data engineering, and embedded systems. The candidate should be able to deliver a first-class teaching experience that offers undergraduate and graduate students an exceptional, practice-based, and research-supported education that translates immediately into expertise that students can take to the workplace.

Job Duties

Duties include teaching at the undergraduate and graduate levels, advising undergraduate students, as well as contributing to service to Stevens and to the professional community.

Basic Qualifications

Applicants must possess a doctoral degree in a related engineering or science discipline prior to commencement of employment. To apply, please submit your package as a single PDF file that contains your curriculum vita, teaching statement, and contact information for 3 references online at [Stevens/SSE Career Opportunities](#). If you have any questions, please direct your inquiries to Prof. Carlo Lipizzi at clipizzi@stevens.edu.

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

About the School

The School of Systems and Enterprises (SSE) at Stevens Institute of Technology is a leading institution in systems innovation and research located in Hoboken, New Jersey, a vibrant city with a population of 54,000 on the Hudson River directly across from New York City. Ranked amongst the top graduate programs in Industrial, Systems, and Software Engineering by the US News and World Report, faculty in SSE embrace diverse careers with both academic and industry experience. Stevens Institute of Technology is an Equal Opportunity Employer. SSE is home to the Systems Engineering Research Center (SERC), a University-Affiliated Research Center of the US Department of Defense that leverages the research and expertise of senior lead researchers from 22 collaborator universities throughout the United States. The School of Systems and Enterprises at Stevens values diversity and seeks candidates who can contribute to a welcoming climate for students of all races and genders. Stevens is committed to equitable practices and policies. We strongly encourage qualified women and minority candidates to apply.

Stevens Institute of Technology

Spring 2022 - Teaching Track Faculty Position in Systems and Enterprises

The School of Systems and Enterprises (SSE) at Stevens Institute of Technology

invites applications for a teaching-track faculty position, starting Spring 2022 or on a mutually agreed upon date. Successful candidates will contribute to a dynamic and growing educational program in the areas of software engineering, space engineering, complex systems, and

underlying enabling technologies, such as machine learning, data engineering, and embedded systems. The individual is expected to deliver a first-class teaching experience that offers undergraduate and graduate students an exceptional, practice-based, and research-supported education



Assistant/Associate Professor, Biomedical Informatics (Tenure-Track)

Location: Stony Brook, New York
Open Date: Mar 07, 2022
Deadline: Jun 07, 2022 at 11:59 PM Eastern Time

Description
 The Biomedical Informatics Department at Stony Brook University invites applications for Assistant Professor or Associate Professor rank in human-computer interaction and information visualization with a focus on applications in clinical informatics.

Required Qualifications:

- Ph.D. degree in Biomedical Informatics, Computer Science, or a related field.
- In lieu of a PhD degree, an M.D. degree with a clinical informatics fellowship or with Masters degree with specialization in clinical informatics.
- To be considered at the Associate Professor level, candidates should have:
- Funded research programs in the areas of human-computer interaction, information visualization, or clinical informatics.
- Strong publication record.
- A strong record of interdisciplinary collaborative research with a demonstrated ability to contribute to or lead team science efforts.

Preferred Qualifications:

- Research experience in clinical informatics.
- Experience with applications of information visualization in clinical and translational research.

Application Instructions
To apply, visit <https://apptrkr.com/2909377>.

All application materials must be submitted online. Please use the Apply Now button to begin your application. For technical support, please visit Interfolio's Support Site (<https://support.interfolio.com/>) or reach out to their Scholar Service Team at help@interfolio.com or (877) 997-8807.

For questions regarding this position, please contact Joseph Cesaria at 631-638-1336.

Special Notes
 Tenure Track position. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. To qualify for tenure and/or a senior faculty appointment, the candidate must meet the criteria established by the School of Medicine (<https://renaissance.stonybrookmedicine.edu/facultysenate/committees/apt>).

Anticipated Start Date: As soon as possible.

that translates immediately into expertise that students can take to the workplace.

Job Duties

Faculty duties include teaching at the undergraduate and graduate levels, advising and mentoring graduate students, conducting externally-funded research, as well as contributing to service to Stevens and to the professional community.

Basic Qualifications

- Applicants must possess a doctoral degree in a related engineering or science discipline prior to commencement of employment.
- At least five years of relevant teaching or related instructional experience in a university or comparable setting.
- At least five years of relevant industry-based professional expertise that translates into educating students for the workplace.
- Experience with advising and/or mentoring desirable.
- Excellent oral and written communication skills.

SSE Submission Guidelines

To apply, please submit your package as a single PDF file that contains your curriculum vita, research statement, teaching statement, and contact information for 3 references online at [Stevens/SSE Career Opportunities](#). If you have any questions, please direct your inquiries to Prof. Carlo Lipizzi at clipizzi@stevens.edu. Review of applications will commence immediately and continue until the position is filled.

About the School

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SUNY Korea

Assistant/Associate/Full Professor and Teaching Professor Positions

The Computer Science Department of SUNY Korea (<https://sunyk.cs.stonybrook.edu/>) invites applications for tenure-track and teaching-track positions, to start in Fall 2022 or Spring 2023.

(A) Tenure-Track Faculty Position: An excellent faculty member is sought at all levels in all areas of computer science. The position will be tenured or tenure-track at SUNY Korea, and will carry an affiliated faculty position with the Computer Science Department at Stony Brook University – State University of New York (SUNY), Stony Brook, NY (<https://www.cs.stonybrook.edu/>). Applicants should hold a PhD in Computer Science or closely related field and exhibit a strong commitment to research and teaching.

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

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

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

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

Review of applications will start immediately and will continue until the positions are filled.

We value diversity and seek candidates who can contribute to a welcoming climate for all students. We strongly encourage applications from women and underrepresented groups.

Syracuse University

*Assistant Teaching Professor
Position in Computer Science or
Computer Engineering*

Job Description

Syracuse University's Department of Electrical Engineering and Computer Science (<http://eecs.syr.edu>) invites applications for Assistant Teaching Professor or Associate Teaching Professor, committed to inclusive excellence and innovative teaching.

Teaching responsibilities will include a range of undergraduate and graduate courses in Computer Science and Computer Engineering. In particular, we seek candidates who have the expertise and desire to teach in one or more of the following areas: software engineering and implementation (software engineering models, Agile development, UML, etc.), object-oriented design, computer organization and architecture, systems programming, mobile app development,

and general programming (such as C++, Java, and Python). Candidates with extensive experience in programming and undergraduate teaching will be considered favorably. Teaching faculty are integral members of the EECS department who are expected to make significant contributions to the department's teaching, advising, curriculum design, and assessment activities.

Qualifications & Responsibilities

A doctoral degree in Computer Science, Computer Engineering, or a related discipline is strongly preferred. Candidates with an MS degree and excellent teaching experience can apply. We strongly encourage applications to show a demonstrated commitment to diversity, inclusion, and excellence in teaching.

How to Apply

For full consideration, candidates must complete an online application and electronically attach a cover letter, curriculum vitae emphasizing teaching experience, teaching statement, and contact information of three professional references through <https://www.sujobops.com/postings/89579>. To be competitive, we strongly encourage candidates to apply early. The review of applications will continue until the position is filled. For additional information, please contact the search committee via email at eecssearch@syr.edu.

Syracuse University is an equal opportunity/affirmative action employer with a strong commitment to equality of opportunity and a diverse workforce.

Women, military veterans, individuals with disabilities, and members of other traditionally underrepresented groups are encouraged to apply.

Temple University

*Department of Computer and
Information Sciences
Faculty Positions (Assistant/Associate/
Full Professor)*

The Department of Computer and Information Sciences at Temple University invites applications for tenure-track faculty positions. We seek candidates whose expertise complements and expands existing departmental strengths in data science, computer systems, theory, and interdisciplinary research. We will consider candidates in all areas of computer science and at all ranks. We are particularly interested in candidates whose research focuses on data science, machine learning, security, and human-centered computing. Successful candidates are expected to have an outstanding research track record commensurate with their rank, and a commitment to excellence in undergraduate and graduate education.

Temple University is a Carnegie R1 (highest research activity) institution that serves more than 35,000 students and is ranked #46 among top public universities by the U.S. News & World Report. Located in the heart of Philadelphia, a city known for arts, culture, history and affordable living, Temple University is in close proximity to many outstanding research centers and industry partners in information

technology, healthcare, biotechnology, and finance. Housed within the College of Science and Technology, the Department of Computer and Information Sciences serves over 1,200 undergraduate majors and graduate students, with academic programs that prepare students to solve challenging, interdisciplinary problems that impact society. Faculty within the department are provided with institutional support, including highly competitive salaries, start-up packages, and low teaching loads, to establish a world-class research program. The department is committed to fostering a diverse, equitable, and inclusive departmental community, and is the headquarters of a national alliance for broadening participation of students and faculty from groups that have been historically excluded in computing.

Applications should be submitted electronically by March 24th, 2022 at: <https://academicjobsonline.org/ajol/jobs/19987>

Submitted materials should include a curriculum vitae, a research statement with a description of research accomplishments, a teaching statement, and three letters of recommendation (names of referees are sufficient for senior-level candidates). For more information, send an email to cisfacultysearch@temple.edu, with "TT Position" as the subject.

Temple University is an affirmative action/equal opportunity employer with a strong commitment to the quality of faculty life. COVID-19 vaccinations are required for employment at Temple University, unless

granted a religious or medical exemption (see www.temple.edu/coronavirus).

Temple University

Department of Computer and Information Sciences

Professor of Instruction Position

The Department of Computer and Information Sciences (CIS) at Temple University invites applications for multiple Professor of Instruction positions. We are interested in hiring faculty that will help us further extend the quality, depth, and breadth of our curriculum and contribute their leadership in advancing our educational mission. Applicants should have a commitment to promoting student engagement and implementing evidence-based instructional strategies that have been shown to be effective for teaching and mentoring diverse groups of students. An ideal applicant will have a PhD degree in computer science (or a related discipline), substantial industry experience, or prior experience teaching computer science courses. We are particularly interested in candidates with expertise in security, data science, web development, and software engineering that can enhance our current undergraduate and graduate course offerings.

This position is a non-tenure-track 9-month academic appointment with a renewable multi-year contract. Temple University offers competitive salaries and excellent benefits. Opportunities for summer salary include summer teaching and grant-funded research.

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Applications should be submitted electronically at: <https://academicjobsonline.org/ajol/jobs/21079>

Submitted materials should include a curriculum vitae, teaching statement, and a statement describing contributions to academic research or industry experience.

Review of candidates will begin immediately and continue until the positions are filled. Applicants are encouraged to apply by March 1, 2022 for priority consideration.

For more information, send email to teaching-cis-search@temple.edu with "Professor of Instruction Position" as the subject.

Temple University is an affirmative action/equal opportunity employer with a strong commitment to the quality of faculty life.

University of Arizona

PostDoc in Computer Security Education

We are seeking a postdoctoral scholar to lead the NSF/SaTC/EDU project "LIGERLabs: Educational Modules for (Anti-) Reverse Engineering". The goal of this project is to build lectures, tools, and exercises to improve students' abilities in Reverse Engineering and Anti-Reverse Engineering. The successful candidate will direct graduate and undergraduate students to build open-source pedagogical artifacts and generators and auto-graders of reverse engineering exercises. They will also conduct studies of students of different backgrounds in order to build up a schedule of exercises of appropriate complexity. The work will build on previous tools built by our group: *Tigress*, *RevEngE*, and *SandMark*.

Please apply [here](#).

University of Chicago Data Science Institute

Postdoctoral Scholar, Data & Democracy Research Initiative

The University of Chicago is seeking Postdoctoral Scholars focused on the intersection of democracy and data science. The postdoctoral scholar will be part of the new Data & Democracy research initiative, a major interdisciplinary collaboration jointly led by the University of Chicago Data Science Institute (DSI) and Center for Effective Government (CEG).

The Data & Democracy research initiative is a unique collaboration between computer scientists, statisticians and political scientists to better understand democracy in the digital age. This initiative will investigate critical questions concerning the impact of misinformation on effective government, how online communication translates into offline political behavior, and the implications of the consolidation of online media platforms for free speech. We invite researchers to join this initiative to spearhead new interdisciplinary research projects as part of a growing community of scholars.

Application review will begin March 21, 2022. However, the application will remain open until filled. Apply online.

<https://uchicago.infoready4.com/#competitionDetail/1865941effectivegov.uchicago.edu>

Center for Effective Government

At the Center for Effective Government, we work to strengthen institutions of

democracy and improve the capability of our government to solve public problems.

University of Chicago

Instructional Professor (open rank)

The Department of Computer Science in the Physical Sciences Division at the University of Chicago invites applications for teaching positions for the position of Instructional Professor (open rank). The selected candidate will be appointed as Assistant Instructional Professor, Associate Instructional Professor, or Instructional Professor, depending on qualifications and educational background. The appointment will be for a term of up to five years, renewable. This is a career-track position with potential progression, competitive salary, and benefits.

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

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

Candidates must have either:

- A doctorate in Computer Science or a related field at the time of appointment or;

Professional Opportunities

- A masters degree and 4 years of relevant professional experience.

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

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

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

Review of applications will begin on October 15, 2022 and will continue until all positions are filled.

The following materials are required:

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

Optional: Candidates may submit teaching evaluations.

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform

and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at <https://provost.uchicago.edu/statements-diversity>.

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

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

University of Chicago

Postdoctoral Scholar

The University of Chicago is seeking a Postdoctoral Scholar focused on internet performance and measurement to work closely with Nick Feamster, Neubauer Professor of Computer Science and Faculty Research Director of the Data Science Institute (DSI). The Internet Equity project is a major interdisciplinary research initiative, funded by Data.org, focused on addressing the issue of Internet access by using large-scale Internet measurement and data science to help communities and stakeholders to better assess the quality and accessibility of broadband

Internet access. Drawing on the University of Chicago's top-ranked programs, world-renowned faculty, as well as a vibrant and quickly expanding data science ecosystem, this is an opportunity to engage in field-defining data science and artificial intelligence research. Our positions carry a competitive salary, generous research funding stipends, and benefits.

Interested applicants can apply here: <https://uchicago.infoready4.com/#competitionDetail/1840566>

University of Chicago

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projects as part of a growing community of scholars.

Application review will begin March 21, 2022. However, the application will remain open until filled. [Apply online.](#)

University of Colorado Boulder

Teaching Assistant/Associate Professor or Scholar in Residence in Computer Science

The Department of Computer Science in the College of Engineering and Applied Science at the University of Colorado Boulder invites applications for a full-time Teaching Assistant/Associate Professor or Scholar in Residence. This position will support teaching in the Technology, Cybersecurity and Policy (TCP) graduate program within the Department of Computer Science. The goal of the appointment is to enhance the department of Computer Science's educational mission by teaching cybersecurity-focused courses at CU Boulder. Successful candidates will be responsible for teaching 4-5 courses a year, mentoring graduate students, supporting student events and organizations, and providing oversight to the graduate curriculum. Typical courses would include Introduction to Cybersecurity, Security Auditing and Penetration Testing, and Digital Forensics.

The annual salary range for this position is \$90,000 to \$135,000 based on experience and position responsibilities. Applications will be accepted until the position is filled but applications received before April

1, 2022 will receive priority reviewing. For consideration, applications must be submitted through [CU Boulder Jobs](#).

University of Delaware

Postdoctoral Scientist/Research Software Engineer

The *Computational & Research Programming Lab (CRPL)* at UDEL research group led by Associate Professor [Prof. Sunita Chandrasekaran](#) is hiring a full-time fully-funded (2 years) postdoctoral researcher/RSE (Research Software Engineer) to work on the [DOE ECP SOLLVE](#) project.

Opportunities

- Contribute towards the development of OpenMP/OpenACC
- Work closely with domain scientists and vendors & the LLVM community
- Target supercomputers including **Summit, Frontier, Perlmutter**
- Full job details <https://tinyurl.com/3d7jt2hm>

Contact Prof. Chandrasekaran with your CV, and a motivation statement of 200 words max.

University of Florida

Non-tenure-track Instructional Assistant Professors (Lecturer/Engineer)

The Department of Engineering Education at the University of Florida is searching for 2 twelve-month non-tenure-track instructional assistant professors

(Lecturer/Engineer). Positions include a 20% research assignment to support teaching.

Come join a dynamic, diverse, and growing department.

<https://explore.jobs.ufl.edu/en-us/job/519747/assistant-engineer>

<https://explore.jobs.ufl.edu/en-us/job/519534/lecturersenior-lecturermaster-lecturer>

University of Maryland, College Park

Open Rank Lecturer Archives and Digital Curation

The College of Information Studies at the University of Maryland, College Park (Maryland's iSchool), invites applications for a full-time, professional track lecturer who is highly competent, energetic, collegial, and flexible to join our exciting environment. The Lecturer will teach in one or more of the areas listed below, with a course load of three classes per semester (fall and spring), and will actively participate in the life of the college through building research capacity and experiential learning opportunities in the Center for Archival Futures (CAFe).

The successful candidate will teach in our core courses and electives in archives and digital curation. Additional courses that the successful candidate can develop include courses that cover topics such as:

- Born-digital, web, and social media archiving;

- The intersection of archives, social justice, and public humanities;
- Crowdsourcing and community archives;
- Digital curation across the LAM sector and beyond;
- Data management;
- Knowledge representation and knowledge organization;
- Machine learning and AI related to cultural heritage;
- Inclusive, equitable, and enduring information ecosystems.

The expected start date for this position is Fall 2022. Best consideration date: March 30, 2022.

For more information about the position, please visit: <https://ejobs.umd.edu/postings/92154>

University of Nebraska at Omaha

Postdoc and Research Technician Positions in Computer Networks

The Network Systems Research Laboratory at the University of Nebraska at Omaha has a postdoc position and a research technician position available in the areas of computer networks, network systems, Internet protocols and architecture, and edge computing.

Link to postdoc application:

<https://unomaha.peopleadmin.com/postings/14940>

Link to research technician application:

<https://unomaha.peopleadmin.com/postings/15043>

For inquiries, please contact Prof. Spyridon Mastorakis
smastorakis@unomaha.edu

For more information about the group's research, please visit: <https://sites.google.com/site/spyridonmastorakis/>

University of New Hampshire

College of Engineering and Physical Sciences

Associate Dean for Research

The University of New Hampshire's College of Engineering and Physical Sciences (CEPS) is seeking a full-time Associate Dean for Research. The Associate Dean for Research will work collaboratively with faculty, college leadership, chairs, center and institute directors, staff, and external partners in industry and education to develop and advance CEPS research initiatives, including perhaps developing new research centers, in support of our strategic vision. This includes connecting expertise across the University to help build collaborations for interdisciplinary research. Additionally, the Associate Dean will be responsible for maintaining and advancing our capacity to obtain and complete externally funded research projects, which in FY21 totaled over \$40M including CEPS affiliated centers and institutes. Candidates must have an earned doctorate or the equivalent in engineering, mathematical sciences, physical sciences or computer science.

To learn more and apply, visit: <https://jobs.usnh.edu/postings/46204>

University of New Orleans

Assistant Professor Positions in Computer Science

The Department of Computer Science at the University of New Orleans invites applications for two tenure-track Assistant Professor positions starting in Fall 2022. We are primarily looking for applicants whose expertise would extend and complement existing strengths within the department. Candidates with expertise in gaming, AR/VR, machine learning and AI, and big data are especially encouraged to apply. Exceptional candidates in other related areas will also be considered.

The successful candidate will be expected to offer a broad range of specialized courses in their area of expertise, supervise graduate students, develop a nationally competitive research profile, and secure external research funding.

A Ph.D. in computer science or a closely related field is required for appointment. Successful applicants must possess a record of research excellence and demonstrate strong teaching commitments to graduate and undergraduate courses.

To formally apply for these positions, please submit a resume, diversity statement, and teaching and research statements to UNO's career site.

https://ulsuno.wd1.myworkdayjobs.com/en-US/UniversityOfNewOrleans/job/New-Orleans-La/Assistant-Professor_R-000187

The University of New Orleans is an AA/ADA/EEO employer who recruits, selects, employs and promotes without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, political affiliation, age, disability, veteran status, or genetic information in its admission and recruitment of students, educational programs, and activities, or employment policies.

University of North Carolina at Chapel Hill

Professor of the Practice

This position drives undergraduate engagement with technology for computer science majors and non-majors alike as a means to grow and sustain a diverse population of technology savvy students on campus. The position will oversee the operation of a software makerspace for mobile and web applications development and serve as a liaison to the broader University and industry community which will serve as the source for applications. In addition, the position entails contributing to the Department of Computer Science curriculum through classroom instruction in software design and engineering and through participation in the update, revision, and development of courses. Successful candidates are expected to employing innovative pedagogical methods and instructional technologies that will be effective in teaching and encouraging a diverse population of students to participate in the makerspace. The position will include

training and evaluating graduate and undergraduate student instructors.

For more information and to apply please visit: <https://unc.peopleadmin.com/postings/222353>

University of North Texas

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 the following non-tenure-track faculty position in the Department of Computer Science and Engineering (CSE) starting Fall 2022.

Clinical Assistant/Associate Professors 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.

The initial appointment is for 3 years and will continue dependent upon performance.

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 13 Professors, 11 Associate Professors, 8 Assistant

Professors, 18 Clinical faculty, 1 Lecturers, over 100 Ph.D. students, over 1,000 master's students, and over 1,200 undergraduate 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 under the UNT Computer Science and Engineering department at jobs.untsystem.edu and may direct any questions to Dr. Russel Pears (russel.pears@unt.edu). An offer of employment for this position will be made dependent upon available funding.

Application Deadline:

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 with a population of about 7 million people, ever-increasing industrial and business activities, and a reasonable cost of living. The vibrant

UNT College of Engineering has more than 100 faculty members. The college's faculty also boast two National Academy memberships, more than 20 faculty fellowships across more than 15 societies, and five NSF CAREER Awards. The college is equipped with numerous state-of-the-art facilities including a recent \$10 million boost to the Center for Agile and Adaptive Additive Manufacturing.

The University of North Texas System and its component institutions are committed to equal opportunity and comply with all applicable federal and state laws regarding nondiscrimination and affirmative action. The University of North Texas System and its component institutions do not discriminate on the basis of race, color, sex, sexual orientation, gender identity, gender expression, religion, national origin, age, disability, genetic information, or veteran status in its application and admission processes, educational programs and activities, and employment practices.

The University of North Texas System is firmly committed to equal opportunity and does not permit -- and takes actions to prevent -- discrimination, harassment (including sexual violence) and retaliation on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity or expression, age, disability, genetic information, or veteran status in its application and admission processes, educational programs and activities, facilities and employment practices. The University of North Texas System immediately investigates complaints of discrimination and takes

remedial action when appropriate. The University of North Texas System also takes actions to prevent retaliation against individuals who oppose any form of harassment or discriminatory practice, file a charge or report, or testify, assist or participate in an investigative proceeding or hearing.

University of North Texas

Assistant/Associate tenure track faculty

The University of North Texas (UNT), a Tier 1 Research Institution (Carnegie Classification as a Doctoral University: Highest Research Activity), invites applications for two Assistant/Associate tenure track faculty positions in the Department of Computer Science and Engineering (CSE) starting Fall 2022.

Candidates in the areas of Computer 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.

Candidates for these positions are expected to develop a strong research program at the assistant level, and have a demonstrated record at the associate level, funded by external sources, support and mentor graduate students. All candidates are expected to conduct research, seek funding support, supervise graduate students and teach both graduate and undergraduate level

courses. UNT is committed to the equal opportunity and comply with all applicable federal and state laws regarding nondiscrimination and affirmative action. More information and application instructions are available from:

<https://jobs.untsystem.edu/postings/53870>

Candidates will be reviewed in rolling basis. For questions, contact:

Yan.Huang@unt.edu

University of Oklahoma

Open-Rank Tenure-Track Professor of Computer Science in Computational Biology

The School of Computer Science at the University of Oklahoma (OU) seeks applications for a tenured/tenure-track faculty position in the area of Computational Biology, open at any rank (assistant, associate, or full professor). 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 candidate who fills this position should look to support OU's strategic research verticals on The Future of Health and Society and Community Transformation; be prepared to engage in multi-college, multi-campus research; be capable of dealing with large, complex data from areas such as healthcare and medicine including furthering collaborations between the School of Computer Science and the OU Harold Hamm Diabetes Center and the Oklahoma Medical Research Foundation.

UNIVERSITY OF THE
PACIFIC **Lecturer of Computer Science**

The Department of Computer Science at University of the Pacific invites applications for a full time Lecturer of Computer Science, to start August 2022. This is a teaching-focused position, with an expectation of seven courses per year. Applicants should be prepared to teach introductory programming and data structures courses. Ability to teach other lower division courses, such as discrete math and non-major courses, is desirable. An MS or PhD in Computer Science or related field is required. For more information and to apply visit: <https://apptrkr.com/2909599>.

Candidates must hold a Ph.D. in Computer Science or a related field and be able to effectively conduct and lead research, form research collaborations, teach computer science courses at all levels, and advise M.S. and Ph.D. students. We are excited to consider appointments at all ranks as appropriate to the qualifications of the applicant. More senior positions require concomitant levels of experience beyond the doctorate.

Details and submissions are online via Interfolio at <https://apply.interfolio.com/99319>.

University of Texas at Austin

Postdoctoral (Associate) Researcher

We invite applicants for a position focusing on exciting AI research, developing novel AI frameworks for human-AI decision-making teams in high-stakes settings, and with the goal of discovering and exploiting human-AI complementarities and producing cost-effective human-AI interactions. The research is in collaboration with a leading university-based Transplant Center, and aims to simultaneously advance AI and benefit life-saving decisions.

Successful candidates will join a team of faculty and Ph.D. students, enjoy mentorship opportunities, join UT Austin's Machine Learning Lab, and benefit from a unique collaboration with leading physicians who make life-saving, high-stake decisions.

We invite applications from diverse areas, including CS, Engineering, and Data Science. Questions can be directed to Maytal Saar-Tsechansky at maytal@mail.utexas.edu.

For more information and to apply, please use this link: https://utaustin.wdl.myworkdayjobs.com/UTstaff/job/UT-MAIN-CAMPUS/Postdoctoral-Researcher--Texas-McCombs-School-of-Business_R_00018187

University of Washington

Assistant Teaching Professor/Associate Teaching Professor - Human Centered Design & Engineering

The Department of Human Centered Design & Engineering (*HCDE*) at the University of Washington plans to hire up to two Assistant Teaching Professors or one Associate Teaching Professor and one Assistant Teaching Professor (100%

FTE, non-tenured) starting the 2022-2023 academic year. HCDE is expanding its faculty to address the growing need for professionals trained in Human Centered Design & Engineering from a multi-disciplinary perspective. HCDE is committed to being a model of diversity in the UW College of Engineering.

For more information and to apply: <https://apply.interfolio.com/102942>

University of Washington (UW) Bothell

Postdoctoral Scholar - Homomorphic Encryption Hardware

The Division of Engineering and Mathematics in the School of Science, Technology, Engineering and Mathematics, at the University of Washington (UW) Bothell invites applications for the position of Postdoctoral Scholar - Homomorphic Encryption Hardware.

This position is a full-time one-year appointment. It is supported through an NSF Grant "Custom Hardware Accelerators for Privacy-Preserving Image Processing". Design, develop, and test FPGA-based hardware accelerators of homomorphic encryption primitives, Publish research results in peer-reviewed journals and/or conference proceedings, Co-mentor undergraduate and graduate researchers, Assist in developing research proposals to secure extramural funding.

For additional information: [UW AHR Jobs](#).

University of Washington

Assistant Teaching Professor/Associate Teaching Professor - Human Centered Design & Engineering

For more information and to apply:
<https://apply.interfolio.com/102942>.

Washington and Lee University

Visiting Assistant Professor of Computer Science

The Department of Computer Science at Washington and Lee University (<http://cs.wlu.edu/>) invites applications for a 2-year Visiting Assistant Professor of Computer Science, beginning July 1, 2022.

For more information and to apply, see <https://apply.interfolio.com/101845>

West Virginia University Institute of Technology

Assistant Professor of Computer Science

WVU Institute of Technology invites applications for an Assistant Professor of Computer Science for Fall 2022.

For more information and to apply visit:

https://wvu.taleo.net/careersection/faculty/jobdetail.ftl?job=18808&tz=GMT-05%3A00&tzname=America%2FNew_York

Williams College

One-Year Visiting Position in Computer Science

The Department of Computer Science at Williams College invites applications for a one-year visiting faculty position beginning in the fall of 2022. Candidates should have a commitment to excellence in teaching and should have a Ph.D., or made significant progress towards completing a Ph.D., in computer science or a closely related discipline by September 2022. Successful candidates will teach a total of four courses with associated labs during the academic year.

The position is open to all areas of computer science. Visiting faculty will join eleven current members of the department in supporting a thriving and diverse undergraduate computer science major. The Department of Computer Science offers a congenial working environment, an excellent student body, and state-of-the-art facilities. Many opportunities exist for collaboration across disciplines, particularly with other faculty in the sciences.

We welcome applications from members of groups traditionally underrepresented in the field. Applications should also include a curriculum vitae, teaching statement, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher. The application materials should also address how the candidate's teaching, scholarship,

mentorship and/or community service might support Williams' commitment to diversity and inclusion.

Application materials must be submitted electronically via Interfolio at <http://apply.interfolio.com/103820>.

Materials may be addressed to:

Professor Stephen Freund, Chair
Department of Computer Science
Williams College
Williamstown, MA 01267

Review of applications will begin March 28, and will continue until the position is filled. Please direct all correspondence to hiring@cs.williams.edu. All offers of employment are contingent upon completion of a background check. Further information is available at <http://dean-faculty.williams.edu/prospective-faculty/background-check-policy>.

Williams College is a liberal arts institution located in the Berkshire Hills of western Massachusetts. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (<http://www.williams.edu>) for more information. Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.