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CRA Update: 2023 CRA Leadership Summit and Winter Board Meeting Recap

On February 23-24, 2023, CRA hosted its annual Leadership Summit for senior leadership of computing related professional societies as well as its winter Board meeting in Washington, DC. Below is a summary of the items discussed during the sessions. The next CRA Board of Directors meeting will be held July 13-14, 2023 in Portland, Oregon. If you have suggestions on agenda topics for our July 2023 CRA Board meeting, please provide them here.

Leadership Summit Highlights

During the society roundtable session, each organization discussed current projects, future directions, and issues they are addressing this year. Common themes that arose were:

- **Events:** Many organizations are balancing virtual, hybrid, and in-person conferences as well as navigating between the opportunities of reaching larger audiences and finding a revenue model that will sustain conferences
- **Research integrity:** Several organizations are addressing increasing rates of misconduct in scientific publishing, as well as harassment and bullying
- **Diversity, equity, and inclusion:** DEI initiatives are ‘top of mind’ of many organizations
- **Open access publishing:** organizations are thinking about how this affects societies and their business models
- **The National Academies CTSB is seeing a surge of interest in advancing AI in all fields and finding common themes across different scientific disciplines; conducting new study in ML in safety-critical systems; exploring the future of HPC for nuclear stockpile stewardship; and investigating interventions in K-12 education on quantum information science**
- **Connections:** some organizations are wondering how to rebuild community connections since the pandemic, including re-engaging students
- **Advocacy:** some organizations are analyzing their portfolio of advocacy issues and where they can have the greatest impact.
- **CRA also discussed engaging the global research community. CRA is interested in connecting with societies and organizations around the globe that have similar focus to CRA, to learn from them and support one another.**

Rebecca Keiser, Chief of Research Security Strategy and Policy at NSF, gave a talk on Research Security and Responsible Internationalization. She reviewed the history of steps taken to strengthen U.S. research security, including the 2019 JASON report and NTSC Research Security Subcommittee, as well as the current status of mandates designed to optimize research security. She encouraged discussion and asked what her office could do to best aid researchers navigating this topic.

Alex Aiken, Co-Chair of the CRA Research Integrity Committee, shared updates on what the committee has been working on. There is concern within the research community that research integrity is being undermined by issues such as: falsification of results, harassment, gaming of review systems, reviewer cabals, and the role of ChatGPT and similar services. The group plans to prepare a best practices report by June 2023 with recommendations and other suggestions to mitigate threats.

Khan Vu, CEO and Executive Director of the Society of Asian Scientists and Engineers, gave a presentation on how Asians are underrepresented in STEM leadership and what society leadership can do to address this. Evidence shows American Asians do not have disinterest in leadership roles, but there are significant cultural issues at play. Leaders can encourage/invite Americans Asians to speak up during meetings, encourage/appoint them to visible leadership positions, mentor or have them mentored by culturally aware leaders, create a leadership pipeline and affinity groups, and support cultural and agile leadership programs.
Board Meeting Highlights

Current CRA Priorities
CRA Board Chair Nancy Amato kicked off the meeting by sharing top level priorities for CRA, including CRA governance, broadening engagement, diversity along many different aspects, and engaging with the global research community. CRA Executive Director Tracy Camp shared additional activities including: career engagement, working to make CRA events more sustainable, and expanding connections/partnerships.

CRA Board Officers Elected
The CRA Board of Directors held elections for Board Officers to serve two-year terms beginning July 1, 2023. Nancy Amato (University of Illinois) was re-elected Chair; Ran Libeskind-Hadas (Claremont McKenna College) was elected Vice Chair; Katie Siek (Indiana University) was elected Secretary; and James Allan (UMass Amherst) was re-elected Treasurer.

CRA Budget Report
CRA Treasurer James Allan gave an overview of CRA’s financial picture for past, current, and upcoming fiscal years. The Board voted to approve the FY24 budget proposed and discussed whether we need to increase reserve funds.

Awards Selected
The Board selected Charles L. Isbell, Dean and John P. Imlay, Jr. Chair of the Georgia Institute of Technology College of Computing, as the recipient of the 2023 CRA A. Nico Habermann Award, in recognition of his substantial impact on improving diversity, equity, and inclusion in the computing community. The Board also selected Lynne Parker, Associate Vice Chancellor and Director of the AI Tennessee Initiative at the University of Tennessee, as the recipient of the 2023 CRA Distinguished Service Award for her unparalleled impact on the computing research community.

Government Affairs
During the Government Affairs Update, CRA Senior Policy Analyst Brian Mosley provided a review of the CHIPS and Science Act and detailed specifics of the FY23 Omnibus for several research agencies, with a special focus on the National Science Foundation (NSF) and the large increase it received. Upcoming issues and concerns included legislative gridlock in Congress, a renewed focus on the nation’s policies toward China, and research security policies proposed from the Executive Branch research agencies. The committee is organizing the Leadership in Science Policy Institute (LISPI) to be held in DC in November. LISPI is a joint effort with the CCC that develops next-generation leaders in the computing research community.

Stephanie Forrest, Chair of the Government Affairs Committee, highlighted issues the committee is focusing on this year, including how to pursue legislative and policy matters around socially responsible computing, the complexities of the research security topic, and potential regulations around AI policy. Board members were asked about additional topics the committee should look into, and the CRA Board approved the proposed committee bylaws.

The View from NSF
Margaret Martonosi, Assistant Director for NSF CISE, discussed CISE organization, core programs, and how CISE advances national and societal priorities through programmatic and policy efforts. She shared what NSF sees as priorities coming out of the CHIPS
Reports from CRA Board Committees and Working Groups

The CRA Governance Working Group is working on updating CRA bylaws and exploring recommendations for more inclusive governance.

The Socially Responsible Computing Working Group has formed three subgroups: (1) Ethics curricula, (2) Best practices for conferences with respect to socially responsible computing, and (3) Computing, climate, and sustainability. Each of these three subgroups is tasked with submitting a report with recommendations to the CRA Executive Committee in June 2023.

The Misconduct Issues Working Group is discussing whether CRA should become the accountability group for these issues. They are also considering developing principles for the community in addition to the punitive-oriented code of conduct.

The CRA Career Engagement Group is considering how CRA can be engaged in the different points of a computing researcher’s career, from undergraduate research through graduate school and beyond.

The Research Integrity Working Group is addressing concerns within the research community that research integrity is being undermined and plans to prepare a best practices report in June 2023 with recommendations and other suggestions to mitigate threats. (See additional details in the Leadership Summit section above.)

CRA Board Member Mary Hall is leading the CRA History Project efforts. In recognition of CRA’s 50th anniversary last year, this project seeks to document the history of CRA. In June, CRA will host a panel at FCRC ’23 reflecting on 50 Years of Computing Research and Future Prospects. She is developing a plan to archive past CRN newsletters and exploring additional activities such as collecting oral histories, preparing an article on evolution of CRA, and writing additional articles on the history of the creation of each subcommittee and impact stories.

The inaugural CRA Leadership Academy, a leadership training workshop for mid-career computing researchers, is being planned for May 22-23, 2023. The organizers are directing outreach to increase the diversity of participants.

Breakout Discussions

CRA organized three breakout discussion groups to collect input from CRA Board members on high priority topics. Additional details on each session are below.

1. Engaging Minority Serving Institutions (MSIs)
The CRA Board discussed CRA’s engagement level with MSIs in a session led by CRA Board member Raquel Hill and CRA Board Chair Nancy Amato. The session focused on the importance of establishing relationships with faculty at MSIs, and gaining a true understanding of the needs and desires of faculty at MSIs which can vary greatly. One area for growth moving forward is to identify and work towards models of sustained engagement.

2. Industry
Computing Research Association-Industry (CRA-I) received feedback from the CRA Board on a number of new activities for 2023. It is clear that CRA-I activities are helping build bridges between Industry, Academia, and Government through roundtables, workshops, etc., as well as connecting the different sectors and bolstering research. The Board recommended that CRA-I continue those activities while also working to engage more underrepresented populations and potentially catalyzing some public/private partnerships programs for the community that engages students and brings them into industry research early on in their college career. CRA-I with access to all of CRA’s multiple committee resources is well positioned to develop such an initiative for the community.
3. Communications
The CRA Board was asked to draw from experiences with their organizations to brainstorm ideas on how CRA could improve its communications and outreach. Below is a brief summary of thoughts shared:

- One goal of communications is to make sure people know about CRA and its activities.

- Often CRA communications get funneled through one point of contact, and this can cause information to get bottlenecked, and not distributed to the right groups of people that can take action. There was support to develop communications for individuals designated as “CRA ambassadors” and instruct them on which group each piece is for so they can distribute appropriately.

- There was support for increased measurement and evaluation of communication initiatives, better tracking of each campaign element and if it accomplished its purpose, as well as an increased focus on storytelling, and convening a regular meeting of communications directors of partner societies.

- CRA could better capitalize on items of high interest, such as pieces of the Taulbee survey and information gathered from the CRA History Project.

Best Practice Documents
CRA is considering updating the best practices document, “Incentivizing Quality and Impact: Evaluating Scholarship, Tenure, and Promotion” (Feb. 2015). There is an opportunity to address issues of quantity versus quality of publications in the next version.

There is also interest in creating a new best practices document on “Multi-disciplinary Research: How to do this well” to address how to support junior faculty members and give credit for this kind of work.

2023 CRA Board of Directors Election Results; CRA Board Officers Also Elected
CRA members have elected five new members to its Board of Directors: Sandhya Dwarkadas, Kinnis Gosha, Samir Khuller, Ming Lin, and Lydia Tapia. Details on these five new members are below. In addition, Alex Aiken (Stanford University), Mary Hall (University of Utah), Kim Hazelwood (Meta AI), and Raquel Hill (Spelman College) were re-elected to serve another term on the CRA Board. All of their terms run from July 1, 2023 through June 30, 2026. CRA would like to thank everyone who agreed to run for a position on the board this year.

Carla Brodley (Northeastern University), Dan Grossman (University of Washington), Fatma Ozcan (Google), and Timothy Pinkston (University of Southern California) are retiring from the Board on June 30, 2023. CRA thanks them for their contributions during their service on the CRA Board.

CRA Board Officers Elected
During the Winter 2023 Board Meeting, the CRA Board of Directors held elections for Board Officers to serve two-year terms beginning July 1, 2023. Nancy Amato (University of Illinois) was re-elected Chair; Ran Libeskind-Hadas (Claremont McKenna College) was elected Vice Chair; Katie Siek (Indiana University) was elected Secretary; and
James Allan (UMass Amherst) was re-elected Treasurer. All four of the CRA Board Officers also serve on the CRA Executive Committee, which usually meets online monthly to handle any matters that need to be addressed before the next Board meeting.

Sandhya Dwarkadas is the Walter N. Munster Professor and Chair of Computer Science at the University of Virginia. Previously, she was the Albert Arendt Hopeman Professor of Engineering at the University of Rochester, where she was professor of computer science with a secondary appointment in electrical and computer engineering and also served as department chair for six years. She received the 2020 Edmund A. Hajim Outstanding Faculty Award from the University of Rochester. Dwarkadas received her Bachelor’s degree from the Indian Institute of Technology, Madras, India and her M.S. and Ph.D. from Rice University. She is a Fellow of the ACM and IEEE. Dwarkadas has been on the CRA-WP Board since 2010. She served as co-chair from 2019-2022. She continues to serve on CRA-WP’s steering committee.

Her areas of research interest include parallel and distributed computing, computer architecture, and the interaction and interface between the compiler, runtime/operating system, and underlying architecture. She has made fundamental contributions to the design and implementation of shared memory both in hardware and in software, and to hardware and software energy- and resource-aware configurability.

Kinnis Gosha (pronounced Go-Shay) is the Hortinius I. Chenault Endowed Professor of Computer Science and Executive Director of the Morehouse Center for Broadening Participation in Computing. Gosha’s research interests include conversational agents, social media data analytics, computer science education, broadening participation in computing, and culturally relevant computing. Gosha also leads Morehouse’s Software Engineering degree program, where he builds collaborations with industry partners to provide his students with a variety of experiential learning experiences. In October of 2022, Gosha took over as the Principal Investigator of the Institute for African-American Mentoring in Computing Sciences (IAAMCS), a Broadening Participation in Computing Alliance funded by the National Science Foundation.

To date, 20 undergraduate researchers in his lab have gone on to pursue a doctoral degree in computing. Gosha currently has over 60 peer-reviewed publications in the area of Broadening Participation in Computing (BPC). Since arriving at Morehouse (2011), he has included undergraduate student researchers as co-authors in 26 peer-reviewed manuscripts. Gosha is very active in the BPC community serving as a regular paper and poster reviewer for the Tapia, SIGCSE, and RESPECT conferences. In 2022, Gosha served as the conference Co-General Chair for the Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) and the Minority Serving Institution Engagement Chair for the 2022 Conference at Snowbird hosted by the Computing Research Association.

Samir Khuller received his M.S and Ph.D. from Cornell University in 1989 and 1990, respectively, under the supervision of Vijay Vazirani. He spent two years as a Research Associate at the University of Maryland, before joining the Computer Science Department in 1992, where he was a Professor for 27 years. From 2003 to 2008, he was the Associate Chair for Graduate Education, and he was the first
Elizabeth Stevinson Iribe Chair for CS. As chair, he led the development of the Brendan Iribe Center for Computer Science and Innovation, a project completed in March 2019. In March 2019, Khuller joined Northwestern University as the Peter and Adrienne Barris Chair for CS. His research interests are in graph algorithms, discrete optimization, and computational geometry. Khuller has published approximately 200 journal and conference papers, and several book chapters on these topics. He served on the ESA Steering Committee from 2012-2016 and chaired the 2019 MAPSP Scheduling Workshop. From 2018-2021, Khuller served as the Chair of SIGACT. In 2020, he received the CRA-E Undergraduate Research Mentoring Award and is a Fellow of the ACM and EATCS.

Ming Lin is a Distinguished University Professor as well as the Barry Mersky and Capital One Professor at University of Maryland, College Park, where she was formerly the Stevinson-Iribe Computer Science Chair. She is a Parker Distinguished Professor Emerita at University of North Carolina, Chapel Hill and a part-time Amazon Scholar. Lin received her Ph.D. from University of California, Berkeley. She is a Fellow of the National Academy of Inventors, ACM, IEEE, and Eurographics, as well as a member of ACM SIGGRAPH Academy and IEEE Virtual Reality Academy. Her research has been recognized by several honors and awards, including NSF Faculty Career Award, IEEE-VGTC VR Technical Achievement Award, Washington Academy of Sciences Distinguished Career Award, and several best paper awards. She is a member of CRA-WP Board of Directors and Asian American Scholar Forum. Lin is a former Chair of IEEE Computer Society (IEEE-CS) Computer Pioneer Awards Committee, IEEE-CS Fellows Committee, and IEEE-CS Transactions Operating Committee, Founding Chair of SIGGRAPH Doctoral Dissertation Award Committee, Editor-in-Chief of IEEE Transactions on Visualization and Computer Graphics, and a former IEEE-CS Board of Governors member.

Lydia Tapia is a Professor and the Department Chair of Computer Science at the University of New Mexico. Her research contributions are focused on the development of computationally efficient algorithms for the simulation and analysis of high-dimensional motions for robots and molecules. Specifically, she explores problems in computational structural biology, motion under stochastic uncertainty, and reinforcement learning. Lydia is the recipient of the 2016 Denice Denton Emerging Leader ABIE Award from the Anita Borg Institute, a 2016 NSF CAREER Award for her work on simulating molecular assembly, and the 2017 Computing Research Association Committee on the Status of Women in Computing Research (CRA-W) Borg Early Career Award.
Charles L. Isbell Receives the 2023 CRA A. Nico Habermann Award

The Computing Research Association has selected Charles L. Isbell, Dean and John P. Imlay, Jr. Chair of the Georgia Institute of Technology College of Computing, as the recipient of the 2023 CRA A. Nico Habermann Award, in recognition of his substantial impact on improving diversity, equity, and inclusion in the computing community.

Over the course of three decades, Isbell has been a persistent force in broadening participation in computing. He launched the Diversifying LEAdership in the Professoriate (LEAP) Alliance, an innovative initiative to increase the diversity of the computing professoriate as an important pathway to increasing student diversity in computing. In addition, his work on the online Master’s degree at Georgia Tech produced an exceptional new way to train more CS graduate students, which has brought more non-traditional students into the computing field.

Isbell has developed wide-spread support across communities for meaningful action on broadening participation. During his service on the Computer & Information Science & Engineering Directorate Advisory Committee (CISE AC) of the National Science Foundation (NSF), he worked to envision and realize a transformative strategic plan for broadening participation in computing which has had tremendous impact. The plan has served as a guiding document for CISE’s efforts to move the needle on diversifying the computing research community. In his role as Chair of the CISE Education & Workforce subcommittee, Isbell provided insight and guidance on the Broadening Participation in Computing (BPC) Plan initiative where CISE Principal Investigators (PIs) include meaningful project BPC plans in proposals submitted to a subset of CISE’s research programs. Isbell also served on NSF’s Committee on Equal Opportunities in Science and Engineering and helped lead a report to Congress that made a compelling argument for establishing shared accountability for PIs, institutions, and NSF.

As his nomination letters attest, Isbell has demonstrated substantial ability to lead, influence important people, and have tangible impact. He has changed the landscape of computing locally, nationally, and internationally, particularly for those minoritized in computing.

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 people from groups that have been minoritized in tech. This award recognizes work in areas of government affairs, educational programs, professional societies, public awareness, and leadership that has a major impact on advancing these members in the computing research community.
The Computing Research Association (CRA) has selected Lynne Parker, Associate Vice Chancellor and Director of the AI Tennessee Initiative at the University of Tennessee, as the recipient of the 2023 CRA Distinguished Service Award for her unparalleled impact on the computing research community.

Parker has made numerous outstanding contributions over the course of six years in federal government positions, leading national artificial intelligence (AI) policy across the Executive Branch and fashioning key strategic policies in support of AI research, development, and deployment.

As Division Director of Information and Intelligent Systems at the National Science Foundation (NSF) Computer and Information Science and Engineering Directorate (CISE), Parker demonstrated technical vision and the ability to forge new national-scale research initiatives and teams across the CISE directorate, NSF, and government agencies. She took a leadership role in several new cross-agency federal research initiatives while founding a new Networking and Information Technology Research and Development program (NITRD) interagency working group on Robotics and Intelligent Systems. She conceived and led the development of several new strategic research initiatives, including the Smart and Autonomous Systems program, the re-visioning of the National Robotics Initiative, and the development of NSF’s new Big Idea on “The Future of Work at the Human-Technology Frontier.”

Parker co-led the 2016 NITRD effort that produced the National AI R&D Strategic Plan, which “established a set of objectives for Federally-funded AI research.” The plan was extremely impactful and established national directions and intent during a time of growing concern about U.S. research leadership in AI. It has transcended three U.S. Administrations, spanned political ideologies, and also served as a model that dozens of nations around the world have adopted.

In 2018, Parker joined the White House Office of Science and Technology Policy (OSTP) as the Assistant Director for AI, and later became Deputy U.S. Chief Technology Officer in 2019, as well as Founding Director of the National AI Initiative Office in 2021. In these roles, Lynne served as the White House lead for national AI policy, managing efforts to promote and foster the nation’s leadership in AI for economic growth, improved quality of life, and national security.

Parker has displayed strategic vision, dedication, and forward-looking perspective while leading the nation’s strategic approach to AI research, workforce development, and infrastructure.

About the Award

The CRA Distinguished Service Award recognizes service in the areas of government affairs, professional societies, publications or conferences, and leadership that has a major impact on computing research.
Computing Research Association Receives $5M Grant for UR2PhD: An Undergraduate Research to PhD National Mentoring Program

The UR2PhD Program aims to increase the percentage of women entering PhD programs by at least 15% per year, with even higher increases for U.S. citizens and permanent residents.

The Computing Research Association (CRA) recently announced that it has received a $5 million grant from a philanthropic partner to support the Undergraduate Research to the PhD (UR2PhD) program. UR2PhD (read as “you are 2 PhD”) focuses on engaging more women who are U.S. citizens and permanent residents in computing PhD programs through a virtual, nationally managed approach to quality undergraduate research opportunities and to bridging the gap to PhD applications.

**Project Goals**
The U.S. role as a tech leader depends on both the number and diversity of PhDs graduating in computing. Researchers with computing PhDs – particularly those in the artificial intelligence/machine learning field – shape our technology, and hence society in the United States and beyond. If these researchers do not represent the society they are shaping, we not only sacrifice potential technological innovations and accompanying economic benefits, but we also risk doing irreparable harm to vast segments of our population, both through the impacts of the developed technologies and the fact that some groups are shut out of the financial stability and influence provided by these technology leadership positions. And yet, 2021 CRA Taulbee survey data indicates that only 23.3% of computer science PhDs who graduated in the 2020-21 academic year identified as women, and 68.7% of those women were nonresidents. There is an urgent need to increase the number and percentage of women who earn PhDs in computing and become leaders in technology research, especially women who are U.S. citizens and permanent residents.

To this end, UR2PhD is a new project to increase the percentage of women entering PhD programs by at least 15% per year, with even higher increases for U.S. citizens and permanent residents.

Specific objectives are to:

- increase the number of undergraduate research opportunities for women by expanding universities’ capacities for high-quality undergraduate research; and

- close the gap between a first research experience and a successful PhD application.

**Proposed Activities**
The UR2PhD program will meet these objectives by leveraging promising and proven successful efforts to engage women in research and vastly scaling these efforts through a virtual, nationally managed structure.

UR2PhD comprises three activities:

- Increase the capacity of computing departments to provide high-quality undergraduate research opportunities through a twice-annual (academic year and summer) virtual undergraduate research methods course and research community.

- Grow the capacity and quality of research experiences for undergraduates (REUs) through a virtual mentor training program for PhD students to serve as REU mentors that is grounded in culturally responsive mentoring practices that ensure mentors are trained to support students from all backgrounds.

- Support and retain students from REU to PhD programs through a series of online REU-to-graduate-school bridge workshops for third- and fourth-year undergraduates, keeping third-year students engaged in research, while supporting fourth-year students through the PhD application process.
UR2PhD Grant Program (continued)

CRA Collaboration
UR2PhD is a collaboration between CRA’s Education Committee (CRA-E) and its Committee on Widening Participation in Computing Research (CRA-WP). CRA-E addresses society’s need for a supply of well-educated computing researchers by providing resources and professional development, honoring undergraduate student research and faculty mentoring achievements, and leading activities that promote the pursuit of graduate education and research careers. CRA-WP focuses on increasing the participation of populations minoritized in tech via community building, career mentoring, information sharing, and effecting systemic change for undergraduate and graduate students, postdoctoral researchers, faculty, and industry and government researchers.

CRA’s Center for Evaluating the Research Pipeline (CERP) will conduct both formative and summative evaluations of the program’s outcomes with respect to increasing the number of women pursuing PhDs in computing. CERP will develop survey instruments, conduct surveys and focus groups, analyze data, and track the outcomes throughout the program’s timeline.

Experience Promoting Undergraduate Engagement in Computing
CRA-E and CRA-WP have experience leading large-scale projects that support and promote undergraduate engagement in computing research and continuation to graduate study. CRA-E and CRA-WP have designed and implemented the National Science Foundation’s CSGrad4US Fellowship mentoring program, which guides industry professionals through the PhD application process. CRA-WP’s Distributed Research Experiences for Undergraduates program matches women and other undergrads minoritized in tech with mentors for paid research internships and has been shown to increase rates of entry into PhD programs. CRA-WP’s Grad Cohort workshops have educated thousands of graduate students about how to thrive in graduate school. CRA-E provides online resources for undergraduate researchers and graduate school applicants (via the Conquer site) and annually recognizes outstanding undergraduate researchers in North America.

The four UR2PhD program leaders also have extensive experience in developing large scale programs:

Christine Alvarado is a teaching professor in the CSE department and the associate dean for the division of undergraduate education at the University of California, San Diego (UC San Diego). In 2014, she founded the CSE Early Research Scholars Program (ERSP), which has engaged 339 early undergraduates (~50 per year) in computing research at UC San Diego, including 200 women and non-binary students and 75 students from underrepresented racial groups. She has overseen ERSP’s expansion to seven universities. Read more about ERSP in this month’s Expanding the Pipeline article on page 16.

Lori Pollock is professor of Computer and Information Sciences at the University of Delaware. Since joining CRA-WP in 2001, she has been involved in the Grad Cohort program and Virtual Undergraduate Townhalls. As CRA-E co-chair, she co-created CSGrad4US. She adapted ERSP for Delaware and co-led Partner4CS, affecting state K-12 CS policy, offering teacher workshops and a course for undergraduates to support teachers.

Monique Ross is an associate professor of engineering education at The Ohio State University. Her work is focused on understanding the experiences and pathways of Latina and Black women in computing. She brings her expertise in REUs, inclusive pedagogy, and intersectional considerations. She also works on the Center for Inclusive Computing efforts to broaden participation in computing and has garnered and managed over $2 million in grant funding.

Kelly Shaw is a professor in the department of computer science at Williams College. She is co-chair of CRA-E and has served as co-chair of the Outstanding Undergraduate Researcher Award committee. She is also a member of the development team for the CSGrad4US mentoring program. Dr. Shaw will serve as the main contact for the UR2PhD program.
UR2PhD Grant Program (continued)

About CRA
CRA represents more than 250 North American organizations active in computing research: academic departments of computer science and computer engineering, laboratories and centers in industry, government, and academia; and affiliated professional societies. Its mission is to catalyze computing research by joining with industry, government, and academia – a role it plays by leading the computing research community, informing policymakers and the public, and championing a diverse, welcoming, equitable, and socially responsible computing research community. For more information, see cra.org.

Applications Are Open for the 2023 Departmental BPC Plan Workshop: March 19 Deadline

By Roohia Meer

Applications are now open for the 2023 Departmental Broadening Participation in Computing (BPC) Plan Workshop. This year’s workshop will be held in Atlanta, GA from May 30th - June 1st in collaboration with Morehouse College. In this workshop, departments will have the opportunity to learn more about BPC efforts from the National Science Foundation (NSF), how to create a Departmental BPC Plan, and how to best support faculty PIs submitting NSF proposals that require a BPC Plan. Consultants from BPCnet.org will be available to answer questions and provide real-time feedback about your department’s BPC Plan during the workshop.

Please check out the workshop website for more information about the workshop.

Eligibility
This workshop is open to all computing department faculty and administrators developing Departmental BPC Plans. We highly recommend (but do not require) that each department participates in the workshop in teams of 2-3. For each department, we ask that at least one participant represent the leadership (e.g., department heads, deans, etc.) at the workshop. We also encourage non-academic staff, research institute personnel, Diversity, Equity, and Inclusion (DEI) professionals, and leaders from other broadening participation-related organizations to attend. Registrants do not need to have prior experience developing Departmental BPC Plans. Each department may send up to three representatives to attend.

Funding
This workshop is funded by the NSF. Attendees will be reimbursed for their travel expenses in accordance with CRA’s Travel Policy.

Application
Each department only needs to submit one application. The person who completes the application on behalf of the department will be asked to provide information on the other representatives (e.g., name, email). Click here to complete and submit your application by midnight Sunday, March 19th.

If you have any questions regarding the workshop, please reach out to bpcinfo@cra.org.

BPCnet.org Resource Portal is an initiative of the Computing Research Association (CRA) with support from the National Science Foundation (CNS-1830364, CNS-2032231, and CNS-1940460). Subscribe to the BPCnet.org newsletter & bulletin by clicking here.
CRA Accessible Tech for All Workshop Summary

By Helen Wright, CRA-I Senior Program Associate

On February 22-23, 2023 in Washington, DC, the Computing Research Association (CRA) held the Accessible Technology for All Workshop.

The workshop was attended by over 40 participants from academia, industry, and government and 20 remote participants. The purpose of this workshop was to frame the state of the art of accessible technology, identify forces shaping the evolution of accessible technology, and develop an understanding of implications for the next wave of computer science research in accessibility. By the end of the workshop, important areas of future research were identified and the need for tech-informed policy were highlighted by the participants. A workshop report will be forthcoming.

The workshop began with a keynote address from Richard Ladner (University of Washington and Access Computing), a longtime advocate for accessible technology. Ladner emphasized the importance of designing technology with accessibility in mind from the beginning, rather than trying to retrofit it later. He also emphasized the opportunities and importance of more research into accessible technology, particularly in the area of machine learning. Ladner encouraged sociotechnical systems that leverage economic interdependencies to provide support for people with disabilities, as a complement to approaches that promote independence.

Other speakers at the workshop included representatives from major tech companies, researchers from universities, and advocates from American Association of People with Disabilities, American Foundation for the Blind, and Autistic Self Advocacy Network. They presented on a range of topics, including regulation, design processes, accessible educational technology, inclusive design, and emerging technologies like virtual and augmented reality.

The event concluded with a group discussion on the future of accessible technology research and innovation and big takeaways from the workshop. Participants identified several areas for future exploration, including the use of AI and machine learning to enhance accessibility, the development of new tools and platforms to support accessibility, and the importance of inclusive design practices. Throughout the workshop, participants emphasized the need for collaboration and communication across different sectors and disciplines in order to advance the field.

Overall, the CRA’s Accessible Technology for All Workshop provided a valuable forum for experts to share ideas and insights on the state of accessible technology and its future directions. By bringing together researchers, industry leaders, advocates, and government representatives, the workshop helped to catalyze new collaborations and initiatives to improve technology accessibility for all.

The workshop was co-hosted by CRA-Industry (CRA-I), Computing Community Consortium (CCC), and CRA-Widening Participation (CRA-WP) and led by a team of organizers from the various CRA committees including Jeanine Cooke (Sandia National Labs / CRA-WP), Shaun Kane (Google), Chris Ramming (VMware / CRA-I), Katie Siek (Indiana University / CCC), and Divesh Srivastava (AT&T / CRA-I).

Please stay tuned for the workshop report which will elaborate the major findings.
CRA-E’s Undergraduate Research Highlights: Empathy in Condolences: Computational Methods for Delivering Thoughtful Condolences

CRA-E’s “Undergraduate Research Highlights” series showcases outstanding research done by undergraduate students at universities and colleges across North America. Each article features the story of a successful undergraduate researcher and offers personal insights into their experiences with finding an advisor, undertaking new research projects, and discovering how research can impact their personal and professional future. It is one of a number of CRA-E’s activities that foster and recognize talented computing researchers with the goal of increasing the research pipeline, promoting graduate education, and advocating research-based careers.

In addition to helping students understand the process of getting involved in research, the articles also serve as a venue for students to pass along advice to others who aspire to become involved in research themselves. Students selected for the research highlights include those receiving recognition in the CRA Outstanding Undergraduate Researcher Award competition. This series is written and edited by CRA-E Graduate Fellows.

Empathy in Condolences: Computational methods for delivering thoughtful condolences

Naitian Zhou, B.S. in Data Science, University of Michigan

This Q&A highlight features Naitian Zhou, an Honorable Mention in the 2022 CRA Outstanding Undergraduate Researchers award program. Naitian graduated from the University of Michigan and is now an Information Science PhD student at the University of California, Berkeley. This interview has been edited for length and clarity.

What led you to seek out your first research experience?

I joined a reading group in college, and we read a paper that used natural language processing (NLP) to predict whether a conversation would devolve into insults. It was the first time I enjoyed reading a research paper and realized people do computing research I am interested in.

There are people using computer science to analyze comics, create music, and even visualize laughter.

If you think computer science is cool but might not have space for your interdisciplinary interests, don’t be afraid to branch out and ask around!

You might be surprised by what you find.

Naitian Zhou

CRA-E
Computing Research Association
Education
How did you find your research opportunity and hone in on a project?
I initially cold-emailed a dozen professors in the CS department about doing research with them. None of those led to anything. A couple of months later, a friend asked me if I had heard of Prof. David Jurgens in the University of Michigan School of Information. Prof. Jurgens’ computational social science work seemed really interesting. I sent him an email asking if I could work in his lab, and he invited me to a lab meeting. I pitched him a few project ideas, and he liked one, so we started working on it.

Can you tell us about your project?
The initial spark for the project came in early 2019, around the time that people were making fun of politicians for saying “thoughts and prayers” because it is such an empty condolence. I was curious what made condolences sound sincere and demonstrate that one cares or empathizes with people in distress. I wasn’t sure how to tackle this problem, but I pitched it to Prof. Jurgens, and he was interested. This idea developed into the more interesting question: is the phrase “thoughts and prayers” measurably bad, and if so, what are measurably good condolences?

The main challenge was identifying when users were seeking or providing condolences. We first looked for prototypical phrases like “sorry for your loss,” then progressively collected more comments by searching similar threads, eventually collecting a big dataset of condolences from Reddit. We used this data to train machine learning models, and used those models to label even more comments. We also looked for which condolences had received an appreciative reply.

Whenever the person seeking support acknowledged the helpfulness of a comment, e.g., “your comment made my day,” we considered the comment as an example of a good condolence. Trite statements like “thoughts and prayers” were rarely considered to be good condolences, but using second person pronouns to center the distressed individual and mirroring their language can be effective strategies for better condolences. I presented our paper at EMNLP 2020.

What challenges did you encounter when first getting started in research?
The main challenge was finding an opportunity that excited me. I knew I wanted to work on projects centered around people and how they behaved or used language, but I didn’t have any idea that the field of computational social science existed, for instance. It was serendipitous that I learned about the Blablablab (Prof. Jurgens’ lab) and that the work there so closely matched my interests. It is challenging to have that awareness or perspective of the research landscape when you’re just starting out. Talking to older students helped provide that perspective.

What were some of your favorite aspects of research?
My favorite aspect of research is knowing I am getting closer to finding an answer to a question I care about. I have the opportunity to write a paper that I’d like to read. This also means that I really enjoy doing literature review, because it’s so fun to read about how others have approached and thought about the same ideas that I’m thinking about.

Have any of your personal identities affected your research experience?
I immigrated to the US with my parents when I was young. Growing up, I experienced how linguistic proficiency and cultural knowledge were essential to fitting in, making friends, and succeeding in school. My research focuses a lot on trying to understand cultural knowledge and belonging. Computing research has empowered me to explore these topics that are so personally relevant in really interesting, novel ways.

Do you have any advice for other students looking to get into research?
So many people work on so many different things in the world! When I started college, computing research felt too esoteric to be relevant to my life. But I discovered there is a space where people are working on questions that I’m interested in! There are people using computer science to analyze comics, create music, and even visualize laughter. If you think computer science is cool but might not have space for your interdisciplinary interests, don’t be afraid to branch out and ask around! You might be surprised by what you find.

— Edited by Nadia Ady and Yasra Chandio
Expanding the Research Pipeline – An update on Scaling the Early Research Scholars Program

By Diba Mirza, Christine Alvarado, Diana Diaz, Renata Revelo, and Cynthia Lee

The Early Research Scholars Program (ERSP), founded by Christine Alvarado in the Computer Science Department at UC San Diego (UCSD), provides authentic research experiences to early undergraduates over one academic year. Since its inception in 2014, the program has transformed the landscape of undergraduate research at UC San Diego by significantly broadening access to research among early students, with over 350 student participants, 60% of whom identify as women or non-binary, and 22% as Black, Latinx, or Native American students. Further, ERSP has retained most participants (97% since the program matured). Figure 1 summarizes the main outcomes of the program from the first four years of its implementation at UCSD.

Expanding ERSP beyond UC San Diego: Three new partners

ERSP has been a great success at UCSD, but how well does it work at other institutions? A team of faculty from University of Illinois Chicago (UIC), Stanford, and UC Santa Barbara (UCSB) worked with Dr. Alvarado to expand ERSP to their institutions. With support from the National Science Foundation, ERSP launched at UCSB in 2018, and other institutions followed within the next year. Outcomes, experiences, and insights from this five-year effort have helped understand how to create positive mentoring relationships, how well ERSP works in different contexts, its impact on participants, and, more broadly, the institutions themselves. We share the main highlights of the expansion effort with the hope that it will be valuable to others looking to take a community-driven approach to scale undergraduate research.

The partner universities share certain similarities; most importantly, they are research-active doctoral-granting institutions in the US. But they also differ in size, selectivity, and timeline (quarter vs. semester) (Table 1). UCSD, UCSB, and UIC are all public institutions; Stanford is private. UCSD, UCSB, and Stanford are highly selective institutions, while UIC is somewhat less selective. UCSB and UIC are classified as Hispanic Serving Institutions (HSI), though the participation of Latinx students in computing is relatively low (25% or less). Finally, UCSD, UCSB, and Stanford operate on a quarter-system (three 10-week quarters per academic year); UIC uses a semester system (two 15-week semesters per academic year).
Expanding the Pipeline (continued)

<table>
<thead>
<tr>
<th>School</th>
<th>Timeline</th>
<th>HSI</th>
<th># CS majors</th>
<th>% women</th>
<th>% BLN</th>
</tr>
</thead>
<tbody>
<tr>
<td>UIC (CS)</td>
<td>Semester</td>
<td>Yes</td>
<td>1700 (CS)</td>
<td>21% (CS)</td>
<td>34.7%</td>
</tr>
<tr>
<td>UIC (ECE)</td>
<td>Semester</td>
<td></td>
<td>647 (ECE)</td>
<td>16.7% (ECE)</td>
<td></td>
</tr>
<tr>
<td>Stanford</td>
<td>Quarter</td>
<td>No</td>
<td>950</td>
<td>34.4%</td>
<td>15.2%</td>
</tr>
<tr>
<td>UCSD</td>
<td>Quarter</td>
<td>No</td>
<td>1959</td>
<td>22%</td>
<td>10%</td>
</tr>
<tr>
<td>UCSB</td>
<td>Quarter</td>
<td>Yes</td>
<td>591</td>
<td>22%</td>
<td>9%</td>
</tr>
</tbody>
</table>

Table 1: Partner institution context and demographics

The ERSP implementation at all partner sites preserved the essential components of the program, described in the next section. However, contextual differences required modifying the original ERSP model in several ways, discussed in detail in earlier work [2, 5]. Our main findings are that implementations at partner sites have seen similar diversity and initial success (as summarized in Table 2). Further, they have taught us how to implement the program in different contexts (e.g., quarters vs. semesters, different credit structures).

<table>
<thead>
<tr>
<th># students (% retention)</th>
<th>Women/non-binary (%)</th>
<th>BLNPI (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC San Diego (2014 - 22)</td>
<td>339 (97%*)</td>
<td>202 (60%)</td>
</tr>
<tr>
<td>UCSD (2018 - 22)</td>
<td>80 (95%)</td>
<td>40 (50%)</td>
</tr>
<tr>
<td>UC (2019 - 22)</td>
<td>83 (94%)</td>
<td>51 (61%)</td>
</tr>
<tr>
<td>Stanford (2019 - 22)</td>
<td>135 (97%)</td>
<td>54 (40%)</td>
</tr>
</tbody>
</table>

Table 2: Retention rates of ERSP participants at partner sites by gender, race/ethnicity (BLNPI=Black, Latino/a, Native, Pacific Islander)

Essential components of ERSP

ERSP has two primary goals: (1) to connect second-year undergraduates (particularly those from marginalized groups) with cutting-edge computing research projects and (2) to create an inclusive and supportive community around research in computing. Towards these goals, the program has four essential components that are preserved across partner sites – a research methods course that gives students a formal introduction to research, group-based research to help students learn valuable teamwork skills and to support each other through the ups and downs of research, a dual mentoring structure consisting of a central mentor and technical mentors who play complementary roles, and a focus on fostering equity and inclusion by engaging groups marginalized in computing and centering ERSP instruction and mentoring in culturally inclusive approaches to research and group-work [6, 7].

The essential components of ERSP
Mentoring early undergraduates using a dual mentor approach

Basic ERSP group-based research and dual mentor structure [2].

The dual-mentoring structure is one of the unique aspects of ERSP. We conducted a qualitative study involving 64 undergraduate researchers from two partner universities to understand students’ perceptions of the dual-mentoring model [3]. Our goal was to understand the role of the central mentor vs. the technical mentor, whether these roles are complementary, and how students’ relationships with their mentors change (or stay the same) during the program.

We found the central mentor primarily provides high-level support and project guidance, helping students to reflect on their research, encouraging them to think more deeply, and helping them articulate questions for their technical mentors. Seemingly counterintuitive, this freed faculty/technical mentors to provide more critical low-level support to students, which the central mentor cannot offer.
Further, we found that students tended to see research as a series of assignments to complete rather than an independent discovery process. However, we observed some growth and comfort with less guided research as the program progressed, confirming prior findings that projects for early undergraduates should be appropriately scoped [4].

We found that one of the essential characteristics of a positive mentoring relationship was the perceived friendliness of a mentor. This characteristic captured the mentor's ability to keep interactions casual, provide emotional support, and, most importantly, make students feel comfortable asking simple questions.

“She [central mentor] also keeps the mentor/student relationship more casual and friendly, so it makes it easy to tell her about any difficulties we're having.”

While friendliness seemed a critical quality that students looked for in a mentor, it required proactive effort. Even when mentors say students should feel comfortable, this result is not always achieved with a hands-off approach.

“He [technical mentor] takes a hands-off approach, but if we ask, he will always give us advice and point us in a better direction... I’m not really sure what to ask him sometimes... It’s still intimidating for me to meet with him. I feel I barely know anything compared to him, but he’s expressed that we can be comfortable with him.”

Our findings suggest potential benefits to involving an auxiliary mentor, even when fully adopting the ERSP model is not an option.

**Expansion beyond the initial partners**

Based on success with the initial expansion, we continued recruiting new and more diverse partners interested in implementing ERSP. With financial support from Google and NSF, we provided $25K-$45K in seed funding for new partners. We held an open application process, and in 2020 and 2021, four new schools joined our team: University of Massachusetts-Amherst (UMass Amherst), North Carolina State University (NC State), Southern Connecticut State University (SCSU) and Texas Southern University (TSU). UMass Amherst and NC State are similar to the original four partner schools in that they are large R1 institutions, while TSU and SCSU bring more diversity to our team. Both TCU and SCSU offer only Master’s degrees at the graduate level in computer science and have faculty with greater teaching responsibilities and less time for research. Additionally, TSU is a historically Black university. All four schools run on a semester timeline.

UMass Amherst and NC State are in the second year of their ERSP implementations, while TSU and SCSU are in their first year. At UMass, the program has been run very similarly to prior implementations, with similar successes in terms of retention in the program. The other three institutions have adjusted the program to accommodate the context at their universities. First, these three institutions have fairly constrained computing major requirements in students’ first two years. Thus, students have difficulty accommodating the research class and the subsequent independent study research in their second year. At NC State, there have also been challenges integrating ERSP with the large existing research program, which involves mainly upper-class students doing individual projects. So while the ERSP research class has launched successfully at NC State, it reaches relatively few early undergraduate students, and the program has not (yet) been able to implement the group-based research structure.

In contrast, undergraduate research structures at TSU and SCSU were originally insufficient, so these universities chose to preserve all of the elements of ERSP but to focus on later-career students (juniors and seniors). This shift succeeded, allowing the course to easily be taught as an upper-division course.
Expanding the Pipeline (continued)

Finally, TSU faced an additional challenge: Due to resource limitations, they had to combine the ERSP course with their existing capstone course. Thus, TSU adopted the ERSP model used by Stanford (see [2]), where students not only propose but also complete a research project within a single term (a 16-week semester at TSU and an 11-week quarter at Stanford). While this format was challenging for TSU students, we still saw the positive effects of ERSP including increased understanding, confidence, and interest in CS research. TSU is currently exploring ways to implement the model over a longer timeframe.

While ERSP was designed to operate at R1 universities with strong research infrastructures, partnerships with TSU and SCSU allowed us to test how well the model would work at institutions with a more even balance between research and teaching. It has launched successfully at both universities, partly because ERSP streamlines and supports undergraduate research by integrating research into coursework, creating appropriate student credit structures, and mentoring students through the research process. However, one of our partners still observes:

“My institution being an R2, faculty have heavy teaching loads, and few engage in research. It would be good to have a network of ERSP technical mentors outside of the institution who could integrate a team from an R2 institution within their research team.”

- Dr. Lila Ghemri, ERSP director at TSU

Indeed, ERSP partnerships between less research-focused and more research-focused universities is a promising idea for giving even more students access to undergraduate research opportunities. More broadly, successful undergraduate research opportunities create better alignment between the educational system, research enterprise, and faculty and student goals, among other factors [1].

Impact of ERSP on participants and institutions

At most partner institutions, ERSP has created a pathway into research for early undergraduates where few or none existed. In addition, it has successfully engaged and retained diverse students across all mature implementations. However, we expect the true benefits of participation in ERSP to be long-term. To study the long-term impact of ERSP on its participants, we recently conducted our most extensive retrospective analysis in collaboration with Burcin Tamer and Heather Wright from the CRA Center for Evaluating the Research Pipeline (CERP). We studied longitudinal data collected from the CRA Data Buddies Survey (DBS) from 2020-2022 for the 2018-2019, 2019-2020, and 2020-2021 cohorts of ERSP at UIC, UCSB, and UCSD. We examined the impact of ERSP on students’ desire to persist to graduate school, their self-efficacy, their sense of belonging, and their desire to remain in their computing major while controlling for gender, race/ethnicity, first-generation college student status, socio-economic background, and academic background related to computing.

Examination of students’ sense of belonging showed that ERSP participants felt more welcomed in computing than students who did not participate in any REU [8]. On average, ERSP participants were three times more likely than the comparison group to want to pursue a graduate degree. However, participating in ERSP did not change the odds of considering leaving computing [8].

Finally, the end-of-program student surveys at multiple sites have been overwhelmingly positive. Students report that ERSP has helped them develop their identity as computer scientists, feel more confident in pursuing independent work, and are more comfortable working in a research environment.

“My group was unique in that we were all women. Our mentor was also a woman. Seeing representation so early in my academic career helped me see a future for myself in computer science.”

“I just learned so much in ERSP. In addition to learning about research in CS and how to participate in it, I learned how to work in a team, improved my resourcefulness, and gained so much confidence as a CS student.”
Expanding the Pipeline (continued)

Join our growing community in implementing ERSP!
We invite you to use our resources to implement ERSP at your institution:

https://ersp.eng.ucsd.edu/resources/startup-course-materials

and join our growing community of partners (email cjalvarado@ucsd.edu)

Acknowledgments
This material is based upon work supported by the National Science Foundation under Grant No DUE - 821521, 1821415, 1821449, 1821501.

About the authors:
Diba Mirza is an Associate Teaching Professor at the University of California, Santa Barbara (UCSB). She has been involved in expanding ERSP (beyond UC San Diego) to the Computer Science Department at UCSB, where she has directed the program for the past four years. During this time, Diba has helped grow and institutionalize ERSP, co-mentoring 80 (mostly early) undergraduates in research projects, including 40 women and 11 students from underrepresented racial and ethnic groups.

Christine Alvarado is a Teaching Professor at the University of California, San Diego. She founded ERSP at UC San Diego in 2014 and directed the program until 2022. To date, ERSP has engaged 339 undergraduates—59% of whom identify as women or non-binary, and 22% of whom identify as Black, Latinx or Native American—in academic year-long research projects. She has led the expansion of ERSP to 7 additional universities, including UC Santa Barbara (launched in 2018), University of Illinois-Chicago (2019), Stanford (2019), UMass Amherst (2021), NC State (2021), Texas Southern University (2022) and Southern Connecticut State University (2022). She also has extensive experience directly supervising undergraduates in research, most of whom are women and/or members of racial groups underrepresented in computing.

Diana Diaz is a Clinical Assistant Professor in the Computer Science department at UIC. She has more than ten years of teaching experience and believes in education as a pathway toward social equality and out of poverty. She teaches computer design, a team-based course that challenges students to build hardware projects using Arduino boards. Dr. Diaz is in charge of implementing ERSP in the Computer Science Department at UIC in collaboration with Dr. Renata Revelo.

Renata Revelo is a first-generation college student who migrated from Ecuador to the United States as a teenager with her parents and sister. She is the first in her family to obtain a Ph.D. She is currently a Clinical Associate Professor at the University of Illinois, Chicago, in the department of Electrical and Computer Engineering. Her research focuses on shifting the culture of engineering via the study of engineering identity, which centers on students of color and examines systemic change.

Cynthia Lee is a Senior Lecturer in the Computer Science Department at Stanford. She specializes in team-based and question-based course design and founded peerinstruction4cs.org to support educators in flipping their computer science classrooms using peer instruction. Her teaching awards include the Lloyd W. Dinkelspiel Award for exceptional contributions to undergraduate education.
Expanding the Pipeline (continued)

at Stanford, a “Top 10 Papers of All Time” award at the 50th anniversary of the ACM SIGCSE technical symposium, and the Stanford Society of Women Engineers’ Professor of the Year. She has a Ph.D. in high-performance computing from UC San Diego. Her industry work experience includes NASA Ames and startups.

References


CCC is Accepting Visioning Proposals from the Community

By Maddy Hunter, CCC Program Associate

The mission of Computing Research Association’s (CRA) Computing Community Consortium (CCC) is to enable the pursuit of innovative, high-impact research that aligns with pressing national and global challenges.

The CCC accepts proposals for visioning activities from the community to catalyze innovative research at the frontiers of computing. Successful activities will articulate new research visions, galvanize community interest in those visions, mobilize support for those visions from the computing research community, government leaders, and funding agencies, and encourage broader segments of society to participate in computing research and education.

You can find out more about visioning proposals and how to construct them on the CCC website. Past examples of visioning activities can be found here.

From the solicitation:
A well-formulated proposal should do the following:
• Describe the visioning topic area and its current state of development within the field.
• Explain the proposed activities in detail (if more than one activity, be sure to demonstrate the differences between the activities, the rationale for more than one activity, and the mechanisms to coordinate across activities).
• Connect the activity and the vision; how does the former support/foster the latter?
• Justify why this vision and this activity are appropriate now.
• Specify the intended outcomes of the activity, and
• Describe how those outcomes can be used to advance the visioning topic area.

A complete proposal must also
• Identify the organizing committee.
• Include brief biographical sketches of the organizers.
• Propose a representative set of potential invitees (be sure to include representation from industry, policy and funding organizations).
• Provide a draft budget with justification, and
• Articulate how the success of the activity and its outcomes can be assessed.

Proposals should be no more than six pages in length. They should describe the existing or potential vision(s) and proposed activities in detail, including how the larger community will be engaged.

We look forward to discussing your ideas with you!
NSF Partners with Ericsson, IBM, Intel, and Samsung to Support Semiconductor Design and Manufacturing

By Maddy Hunter, CCC Program Associate

Late last month, the National Science Foundation (NSF) announced a partnership with Ericsson, IBM, Intel, and Samsung to support the manufacturing and design of the next generation of semiconductors. The nearly $50 million partnership aims to invest in projects that encourage science and engineering researchers to apply a holistic, “co-design” approach to the way they develop semiconductors. Co-design approaches simultaneously consider the device/system performance, manufacturability, recyclability, and impact on the environment. Taking this design approach forces researchers to think of the whole lifecycle of a new technology, converging essential elements of the process into a single integrated process.

This program will hopefully alleviate the skyrocketing costs of cars and other chip-based products. These increases are due to a nationwide shortage in semiconductors, further complicated by the global pandemic. While demand for chip-based products remains high in the U.S., only about 10% of the global supply of chips is produced nationally. Investments made through this partnership will help address the problem by catalyzing research and innovation and leading to breakthroughs in semiconductor and microelectronics technologies on which these highly demanded devices rely.

“Future semiconductors and microelectronics will require transdisciplinary research spanning materials, devices, and systems, as well as the engagement of the full spectrum of talent in the academic and industrial sectors,” said NSF Director Sethuraman Panchanathan. “Partnerships such as this are essential to inform research needs, spur innovation, accelerate the translation of results to the market, and prepare the future workforce.”

You can read more about the partnership and its goals on the NSF website.

In 2013, the Computing Community Consortium (CCC), coupled with NSF and the Semiconductor Research Corporation (SRC), organized a workshop Convergence of Software Assurance Methodologies and Trustworthy Semiconductor Design and Manufacture (SA+TS). The event aimed to bring together academic and industry experts from both the programming language and semiconductor design/manufacture communities to share and discuss challenges to securing the semiconductor manufacturing process and strategies. You can find the final report here.
The National Artificial Intelligence Research Resource Task Force Releases Final Report

By Maddy Hunter, CCC Program Associate

Recently, the National Artificial Intelligence Research Resource (NAIRR) Task Force released a roadmap to establish a national research infrastructure aimed to broaden access to resources for AI research and development. There are ever increasing opportunities to work with cutting-edge AI technologies, but many of the opportunities are limited to large companies, organizations and academic institutions with an abundance of resources. The implementation plan, Strengthening and Democratizing the U.S. Artificial Intelligence Innovation Ecosystem, aims to provide AI researchers and students with access to computational resources, high-quality data, training tools, and user support.

The report lays out the following goals for the NAIRR:

1. Provide AI researchers and students with significantly expanded access to computational resources, high-quality data, educational tools, and user support—fueling greater innovation and advancing AI that serves the public good.

2. Establish the NAIRR with four measurable goals in mind, namely to 1) spur innovation, 2) increase diversity of talent, 3) improve capacity, and 4) advance trustworthy AI.

3. Follow a cooperative stewardship model, whereby a single Federal agency serves as the administrative home for NAIRR operations and a Steering Committee comprising principals from federal agencies with equities in AI Research drives the strategic direction of the NAIRR.

4. Provide access to a federal mix of computational and data resources, testbeds, software and testing tools and user support services via an integrated portal.

5. Provide accessible resources to a range of users and provide a platform that can be used for educational and community-building activities in order to lower the barriers to participation in the AI research ecosystem and increase the diversity of AI Researchers.

6. Set the standard for responsible AI research through the design and implementation of its governance processes.

7. Implement system safeguards in accordance with established guidelines.

8. Accomplish the implementation in four phases, beginning immediately after the publication of this report. Phase 1 securing Congressional funding, estimated to be around $2.6 billion over an initial six year period.

The NAIRR task force used a rigorous, open process to collect information and ensure the report was a collaborative, inclusive representation of community sentiments. The process included 11 public meetings and two formal requests for information to gather public input. In June 2022, the NAIRR task force requested input from the community on the initial findings and recommendations contained in the interim report. You can read the Computing Community Consortium’s response here.
Mentoring and Teaching Activities Among Undergraduate Computing Majors by Gender Identity

By Heather M. Wright, Associate Director of CERP

Undergraduate students are presented with opportunities to grow as future professionals during their undergraduate studies. The Data Buddies Survey collects data on a wide range of professional development activities, including those related to mentoring and teaching other students. During the fall semester, undergraduate computing majors [1] were asked to report how often (never, once, two or three times, four or more times) they were involved in the following activities: mentored students, taught courses, provided study support in computing (e.g., provided tutoring; supplemental Instruction [SI]), and worked as a teaching assistant (TA).

In this infographic, we compared students’ involvement in teaching and mentoring activities by their reported gender identity [2]. Results indicate statistical differences between groups at the $p \leq .05$ level: men were less likely than women to have mentored other students, taught courses, and worked as a TA. There were no statistically significant differences between groups in their involvement providing tutoring to others. Across all four measures, there were no statistical differences between those with another gender and those who identified as men or women. This is likely due to the relatively smaller sample and effect size ($n = 285$). Overall, fewer students engaged in teaching courses and working as a TA compared to those mentoring and tutoring other students. This is likely due to students having easier access to participating in these activities compared to TA or teaching opportunities.

Source: Data Buddies Survey 2021, Center for Evaluating the Research Pipeline, Computing Research Association

Percentages represent the number of students within each gender who indicated being involved in each activity at least once.
Notes:
The survey data analyzed for this infographic were collected by Center for Evaluating the Research Pipeline via The Data Buddies Project. Sample included 7,780 undergraduate computing majors who provided their gender in the demographics portion of the survey. Men, women, and those with another gender were compared using a z-test and Bonferroni-corrected p values.

[1] “Computing major” includes those who were majoring in computer science, computer engineering, software engineering, electrical and computer engineering, electrical engineering and computer science, information technology, computer information systems/informatics, bioinformatics/computational biology, computing and business, data science/analytics, game design, or any other computing & technology major (displayed choice as “Other computing & technology major”).

[2] Gender identity was collected using the following question: “What is your gender identity?” Response options included “Man”, “Woman”, “Genderqueer/gender non-conforming/non-binary”, “Agender”, and “Something else”. Respondents that selected the last three options were grouped together as “Another gender” for the purpose of this analysis.

This analysis is brought to you by the CRA’s Center for Evaluating the Research Pipeline (CERP). CERP provides social science research and comparative evaluation for the computing community. Subscribe to the CERP newsletter here. Volunteer for Data Buddies by signing up here.

The Data Buddies Project is currently supported through National Science Foundation (NSF) awards CNS-1840724, CNS-2036717, DUE-1821136, sub-awards and contracts, and direct CRA contributions. Previous NSF awards that supported DBS include CNS-1246649 and DUE-1431112. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.
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Column Editors
Expanding the Pipeline
Soha Hassoun, Tufts University
Patty Lopez, New Mexico State University
Arizona State University
School of Computing and Augmented Intelligence

Teaching Professor (All ranks) in Software 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 a full-time teaching professor (all ranks) position beginning August 2023. This position is in primary support of the Software Engineering M.S. and B.S. programs on ASU’s Polytechnic Campus, but teaching professors are expected to support the instructional mission of all SCAI programs. SCAI has locations on the Tempe and Polytechnic Campuses so some travel between locations should be expected. In addition, SCAI has an online presence and all faculty participate in the creation of curriculum and delivery of instruction in the online modality. This is a non-tenure track appointment with a renewable fixed-term academic year contract. Appointments will be made at the rank of Teaching Professor, Associate Teaching Professor or Assistant Teaching Professor commensurate with the candidate’s experience and accomplishments. Opportunities exist to augment the academic year salary by assisting with summer instruction.

Review of applications will commence on March 20, 2023.

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/](https://hiring.engineering.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](https://www.asu.edu/aad/manuals/acd/acd401.html) and [https://www.asu.edu/titleIX/](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](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

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 up to ten tenure-track/tenured faculty positions at all ranks in the following disciplines: computer science, cybersecurity, data science, biomedical systems engineering and information systems. Hiring will continue on a rolling basis until positions are filled. Reach out to [ccs@augusta.edu](mailto:ccs@augusta.edu) if you have questions.

The School was founded in 2017 with the mission to provide high-engagement, state-of-the-art education, and research across its Computer Science, Information Technology, and Cybersecurity disciplines, and with the vision of becoming a national leader in Cybersecurity. The School is undergoing an unprecedented transformation and growth, starting the most recent academic year with over 40 full time 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 few years.

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. 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 2023.

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: 254047. The following materials are required and must be submitted as word/pdf documents via the application portal:

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

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

### Barnard College

**Professor or Associate Professor of Computer Science**

Barnard College invites applications for a tenured professor or associate professor in Computer Science. Barnard faculty are expected to engage in teaching, research, curriculum and program development, undergraduate advising, and mentoring of undergraduate research. The successful hire will further the aims and vision of Barnard’s CS program and will embody strategic strengths for this growing program. There is opportunity to collaborate with faculty and students at both Barnard and Columbia. The position is open to all areas of computer science as well as to multidisciplinary scholars with a significant computational focus. We encourage candidates who take a multidisciplinary approach, whether across multiple subareas of computer science, or with research connections to another discipline. Candidates must have a PhD in Computer Science or a related discipline, and should have a strong track record of significant scholarship, experience and excitement for undergraduate teaching and mentoring, and a demonstrated commitment to increasing diversity in computer science.

Information and application at https://cs.barnard.edu/tenured-faculty-computer-science.

### Brown University

**Associate or Full Professor, Health Data Science**

The Brown University School of Public Health is pleased to announce a school-wide opening for an Associate or Full Professor (tenure-track) with emphasis in Health Data Science. This search will take a broad view of data science research. Areas of interest include, but are not limited to, statistical and data-analytic methodology, health information systems, machine learning, text mining, societal impact of artificial intelligence, algorithmic fairness in health, multimodal data modeling, data-driven policy evaluation and decision making, and data integration.

For more details and to apply, visit http://apply.interfolio.com/98685.

Review of new applications will begin on April 1, 2023.
Carleton College

Visiting Assistant Professor

Carleton College invites applications for a two-year visiting faculty position in computer science, beginning September 1, 2023, at the rank of assistant professor or instructor. This position involves teaching six courses per year spread over three 10-week terms, including a mix of introductory and advanced courses, to be selected based on the successful applicant’s interests and specialization. Candidates with any specialty within computer science are encouraged to apply. Master’s in computer science or a closely related field is required; Ph.D. preferred.

We are also open to part-time or part-year or one-year appointments.

Please see the full job description for further details.

Carnegie Mellon University in Qatar

Faculty Position in Computer Science

Carnegie Mellon University in Qatar invites applications for a teaching-track faculty position at the assistant level in the field of Computer Science to begin in Fall 2023. Candidates must have a Ph.D. in Computer Science or related field, and have an outstanding academic credentials. Exceptional candidates with other areas of expertise are welcome to apply. Besides being excellent educators, candidates are expected to contribute to the Computer Science department through activities such as research, outreach, advising, and/or curriculum development.

More information can be found in this link and applications can be submitted through Interfolio: https://apply.interfolio.com/48629

Clemson University

Lecturer

The School of Computing at Clemson University invites applicants for multiple Lecturer positions beginning August 2023. Responsibilities will include teaching (primarily for undergraduate classes), student advising, participation in departmental and university committees, and other typical faculty responsibilities. Teaching assignments will be determined based on school needs and candidate interests. The ability to teach one of the following courses is required: Operating Systems, Networking, Discrete Structures, or Algorithms. Lecturers are eligible for promotion to the rank of Senior Lecturer and Principal Lecturer.

More information and application procedures may be found at https://apply.interfolio.com/48629

Davidson College

Assistant Professor of Practice in Data Science

Davidson College invites applications for an Assistant Professor of Practice in Data Science to teach in its interdisciplinary minor Data Science and to lead Data CATS, which supports students, faculty, and staff from multiple disciplines in data analytics work. Compensation is competitive at the assistant professor rank in computer science and related fields. The position is non-tenured and renewable with support for professional activities and the possibility of rank advancement.

Davidson welcomes candidates with enthusiasm for teaching data science in a liberal arts college with an interdisciplinary focus. The successful candidate will be energized to support students from diverse backgrounds and faculty from a range of disciplines with courses and independent research.

Candidates with diverse professional backgrounds are invited to apply, including those with experience in industry or roles outside of academia. Candidates must have a bachelor’s degree with substantial professional experience in data science and/or a master’s degree or PhD in a relevant field, skills in Python and/or R, and introductory statistics knowledge.

Applications are due March 15, 2023. Click here to explore more details about the position’s responsibilities, required/preferred qualifications, and application process, including instructions for the cover letter and Statement of Contributions to Inclusivity.

Florida International University

Director - Knight Foundation School of Computer and Information Science

Florida International University is a top public university that drives real talent
Professional Opportunities

and innovation in Miami and globally. Very high research (R1) activity and high social mobility come together at FIU to uplift and accelerate learner success in a global city by focusing in the areas of environment, health, innovation, and justice. Today, FIU has two campuses and multiple centers. FIU serves a diverse student body of more than 56,000 and 290,000 Panther alumni. U.S. News and World Report places dozens of FIU programs among the best in the nation, including international business at No. 2. Washington Monthly Magazine ranks FIU among the top 20 public universities contributing to the public good.

**Director - Knight Foundation School of Computer and Information Science**

The Knight Foundation School of Computing and Information Sciences (KFSCIS) at the Florida International University (FIU) in Miami, Florida, is looking for a visionary leader to continue its evolution and rapidly growing visibility, research and student success. This is an exciting time for KFSCIS and the College as South Florida is rapidly expanding its technology workforce in tandem with the MiamiTech initiatives.

KFSCIS is hiring for a position of full professor with tenure and administrative duties of School Director. The School Director is the Chief Administrative Officer of the School, reporting directly to the Dean of the College of Engineering and Computing and working closely with the Office Of The Dean and central University administrative units to coordinate and promote undergraduate and graduate degree programs and the School research agenda. The School Director serves as a leader and facilitator for the success and well-being of the academic unit faculty and staff. The Director is expected to promote an environment conducive to faculty productivity and student achievement and an atmosphere of mutual respect, equity, and collegiality among faculty and students.

We welcome applications from candidates with expertise in all areas of Computer Science that complement and enhance our current research strengths. Expertise in interdisciplinary areas is particularly encouraged. Applicants must hold a doctorate in Computer Science or a related field.

Candidates must have stature in the field, the ability to represent the School among internal and external constituents and stakeholders, a commitment to teaching, diversity, and inclusivity, an active and sustainable record of excellence in funded research, publications, and professional service, a network including industrial and government partnerships, a vision for innovation and growth in alignment with the University’s and College’s mission and vision, and the Miami Tech movement, and demonstrated leadership in large scale collaborative or interdisciplinary projects. Successful applicants must be committed to teaching excellence at the graduate and undergraduate levels, have leadership skills, and experience managing faculty, staff, budget, curriculum, and the ABET accreditation process. Applications are also encouraged from candidates with highly transformative research programs that extend the frontiers of computing.

**About the School**


Our multi-year expansion provides a plan to add 20 new faculty members over five years. We aim to strategically add multiple tenured and tenure-track faculty members this year to improve our rankings among the nation’s top Computer Science programs. Computer Science has been identified as one of the University’s strategic growth areas, and KFSCIS has launched many initiatives and degree programs to produce technologically-trained expertise for the burgeoning South Florida Tech Hub.

Currently, KFSCIS has 35 tenure-track faculty members, many with NSF and DOE CAREER awards and others who have been nationally recognized for their contributions. KFSCIS has six research centers, including federally-funded centers of excellence. The School is engaged in many exciting research, education, and outreach programs and offers bachelor’s, master’s and doctoral degrees. Majors include: Computer Science, Cybersecurity, Information Technology, Telecommunications & Networking, and Data Sciences. KFSCIS has several computing clusters with first-rate computing and support infrastructure and enjoys broad and dynamic industry and international partnerships.
KFSCIS is committed to fostering a diverse, equitable, and inclusive academic community. We welcome applications from women, disabled individuals, and underserved communities. Dual-career couples and individuals from qualified research groups intending to relocate together are encouraged to mention this in their cover letters.

Florida International University is classified by Carnegie as R1: Doctoral Universities–Highest Research Activity as well as a Community Engaged University. FIU is among the 5 largest universities in the nation and is ranked number #1 in the nation awarding bachelor’s and master’s degrees to Hispanic students. FIU’s colleges and schools offer more than 190 bachelor’s, master’s and doctoral programs in fields such as engineering, international relations and law, including a variety of fully online programs. As one of South Florida’s anchor institutions, FIU has been locally and globally engaged for more than four decades finding solutions to the most challenging problems of our time. FIU emphasizes research as a major component of its mission and the university’s centers and institutes reflect the diversity of FIU’s research interests and activities.

Qualified candidates are encouraged to apply to Job Opening ID 528576 at https://facultycareers.fiu.edu/ and attach cover letter, curriculum vitae, statement of teaching philosophy, statement of research and diversity statement based on the university guidelines and contact information for three references as a single pdf file. References will be contacted as determined by the search committee. Nominations and inquiries about this position can be directed to Dr. Deidra Hodges at dhodges@fiu.edu.

We will start to review applications on February 11th, 2023. Applications will be accepted until the position is filled.

**Clergy Notice**

In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act, the University Police department at Florida International University provides information on crimes statistics, crime prevention, law enforcement, crime reporting, and other related issues for the past three (3) calendar years. The FIU Annual Security report is available online at: https://police.fiu.edu/download/annual-security-fire-safety-report/

To obtain a paper copy of the report, please visit the FIU Police Department located at 885 SW 109th Avenue, Miami, FL, 33199 (PG5 Market Station).

**Pay Transparency**

Florida International University will not discriminate in or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. However, employees who have access to the compensation information of other employees or applicants as a part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the contractor’s legal duty to furnish information.

FIU is a member of the State University System of Florida and an Equal Opportunity, Equal Access 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 or protected veteran status.

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**Franklin and Marshall College**

**Visiting Position In Computer Science**

Franklin and Marshall College invites applications for a visiting position in the Department of Computer Science. The position would begin in August 2023 for the 2023-2024 academic year with a “3-3” teaching load. The rank will be Visiting Assistant Professor or Visiting Instructor, depending on qualifications. Appointment is for nine months (August - May). Applicants should be aware, this position is not eligible for employment visa sponsorship. Applicants must submit materials at Interfolio. Details on the application process are available at Interfolio, http://apply.interfolio.com/120099. Review of applications will begin on Feb. 17, 2023. Direct any questions about hiring to julie.gemmell@fandm.edu.
Georgia Institute of Technology

Lecturer position in Computer Systems and Software

The School of Electrical and Computer Engineering (ECE) at the Georgia Institute of Technology invites applications for the position of Lecturer to teach undergraduate courses in the area of Computer Systems and Software (CSS) and to manage software project infrastructure in the Computer Engineering program.

Specifically, we are seeking an individual who is invested in engineering education, who will deliver excellent teaching in the area of Computer Systems and Software and who will contribute to developing and maintaining innovative software projects supporting active learning in ECE courses. We are open to applicants in all areas of computer engineering, but we are particularly interested in candidates with teaching and research experience in embedded systems, software development, computer architecture, parallel programming, cloud and edge computing, reconfigurable computing, or computer system security.

This is a full-time, 12-month, non-tenure track academic position.

Primary responsibilities of the Lecturer will include, but are not limited to:

- providing high-quality classroom teaching
- teaching two sections of undergraduate courses/semester
- supporting software project infrastructure
- participating in project and course development
- integrating innovative research and best practices for promoting student success in engineering education.

Required Qualifications: M.S. or Ph.D. in computer engineering, or related computing field.

Interested applicants should prepare a complete package that includes:

- a cover letter outlining relevant experience,
- a curriculum vitae,
- a teaching portfolio that includes an educational philosophy statement and material relevant to the applicant’s teaching abilities (e.g., student surveys, sample syllabi, sample assignments or activities for a course), and
- contact information for three references.

To Apply:

- Visit https://hr.gatech.edu/careers
- Select Internal (if you are a GT employee) or External
- Locate Job ID 250296

For additional information, please contact:
Linda Dillon, linda.dillon@ece.gatech.edu
Lucretia Allen, lucretia.allen@ece.gatech.edu
Shalonda Williams, Shalonda.williams@ece.gatech.edu

Review of candidates is underway, and the search will continue until the position is filled.

Equal Employment Opportunity

Georgia Tech provides equal opportunity to all faculty, staff, students, and all other members of the Georgia Tech community, including applicants for admission and/or employment, contractors, volunteers, and participants in institutional programs, activities, or services. Georgia Tech complies with all applicable laws and regulations governing equal opportunity in the workplace and in educational activities. Georgia Tech prohibits discrimination, including discriminatory harassment, on the basis of race, ethnicity, ancestry, color, religion, sex (including pregnancy), sexual orientation, gender identity, national origin, age, disability, genetics, or veteran status in its programs, activities, employment, and admissions. This prohibition applies to faculty, staff, students, and all other members of the Georgia Tech community, including affiliates, invitees, and guests.

Hampden-Sydney College

Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at Hampden-Sydney College is seeking applicants for a tenure-track Assistant Professor of Computer Science position beginning August 2023. The successful applicant will teach a range of undergraduate computer science courses.

Candidates must demonstrate a strong commitment to teaching and the drive to sustain an ongoing program of scholarship. Applicants should have a Ph.D. in computer science or a closely related field by the time of appointment.

Hampden-Sydney College values diversity, prohibits discrimination, and is committed to equal opportunity for all employees and applicants for employment.

For more information and to submit application materials, visit http://apply.interfolio.com/112757.
Professional Opportunities

Haverford College
Visiting Assistant Professor in Computer Science

The Department of Computer Science at Haverford College invites applications for one or more multi-year full-time leave replacement faculty positions for the 2023-2024 academic year. Responsibilities will include teaching five-course units over two semesters. Courses could include introductory CS (CS1 and CS2), discrete mathematics, and/or upper-level elective courses, including supervising lab or discussion sections. Candidates in all areas of Computer Science, Mathematics, and connected fields are encouraged to apply. The successful candidate will have a Ph.D. (ABD considered) as well as excellent teaching skills and experience.

The appointment officially begins July 1, 2023, applicants should submit, via Interfolio (https://apply.interfolio.com/119053)

IMDEA Software Institute
Tenure-Track Faculty Positions

The IMDEA Software Institute invites applications for tenure-track (Assistant Professor) faculty positions. We are primarily interested in recruiting excellent candidates in the areas of: Machine Learning, including Explainable AI, Neuro-Symbolic Computation, Formal Reasoning about ML Systems, Data Analysis at Large Scale, etc.; Systems in general, including Distributed Systems, Embedded Systems, Databases, IoT and Edge Computing, etc.; Cyber-Physical Systems; Software Technology for Quantum Computing; Privacy; and Software Engineering.

Exceptional candidates in other topics within the general research areas of the Institute will also be considered. Tenured-level (Associate and Full Professor) applications are also welcome.

The primary mission of the IMDEA Software Institute is to perform research of excellence at the highest international level in software development technologies. It is one of the highest-ranked institutions worldwide in its main topic areas.

Selection Process

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

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

Please select the reference “2023-01-faculty-call” at the beginning of the form. For full consideration, complete applications must be received by February 15, 2023, although applications will continue to be accepted until the positions are filled.

Working at the IMDEA Software Institute

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

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

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

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

**Faculty Position at Department of CSE**

The Department of CSE at IIT Jodhpur invites applications for faculty positions at all levels in all core and applied areas of computer science. Candidates should have a PhD degree in CSE or a related field. The candidates are expected to have excellent research track record and commitment towards teaching.

About IIT Jodhpur: IITJ has a sprawling campus of over 850+ acres with 4000 students and 220+ faculty members with the department of CSE having 20 faculty members. The department [https://cse.iitj.ac.in/](https://cse.iitj.ac.in/) coordinates the BTech, MTech and MTech-PhD programs in CSE and AI, along with PhD in CSE. The institute also houses the Technology and Innovation Hub on CV, AR and VR.

Any Indian national, PIO, foreign national is eligible to apply. Rules of GoI will be applicable for terms and conditions of the appointments including the salary and benefits. Benefits include relocation expenses, maternity/paternity leaves, a generous initiation grant, PhD student support, on campus housing (if available), access to on-campus medical facilities, access to on-campus sports facilities etc.

For any clarification, candidates may reach out to head-cse@iitj.ac.in.

Interested candidates are encouraged to apply via [https://oa.iitj.ac.in/OA_REC_Faculty/](https://oa.iitj.ac.in/OA_REC_Faculty/).

Lawrence Berkeley National Lab

**Postdoctoral Fellow - HPC for Computational Materials Science and Chemistry - 97767**


This position is focused on the development of algorithms and efficient implementation of first principle electronic structure methods in materials science and chemistry software targeting leadership class HPC systems. The developments will be focused on ground and excited state approaches including the random-phase approximation (RPA), GW method, and real-time time-dependent density functional theory (RT-TDDFT) with hybrid functionals. In addition, this position will contribute to the development and/or advancement of open-source software tools. Involvement in the publication of the research and contributions at conferences is expected.

The position will be part of an integrated team of computational materials scientists, chemists, physicists and HPC application developers that will design and deliver novel approaches, methodologies, algorithms and software to tackle large scale ground and excited state first principles materials simulations and scaling efforts to future leadership class HPC Exascale architectures.

For full description and to apply, please visit [http://50.73.55.13/counter.php?id=24992](http://50.73.55.13/counter.php?id=24992)

NYU Tandon School of Engineering

**CSE Tenure-Track Positions**

The Department of Computer Science and Engineering (CSE) at the NYU Tandon School of Engineering (NYU Tandon) invites applications for two tenure-track positions at the level of Assistant or Associate Professor with an anticipated start date of September 1, 2023.

We are looking for strong candidates working in a broad set of research areas within computer science. Areas of focus for this search are visualization, data engineering, cybersecurity (especially in the areas of Emerging Media, Health, Sustainability, Systems, and Responsible Technology), and theory with applications to other research areas (e.g. Theory + Responsible Computing, Theory + Data Management, Theory + Scientific Computing, etc.)

Successful candidates should have a Ph.D. degree in Computer Science or a closely related discipline. We seek an individual with a strong record of scholarship, leadership, curricular innovation, entrepreneurship, and an excellent funding record.

Competitive salaries and startup packages will be offered. New appointees are expected to be outstanding scholars and to participate in teaching at all levels from undergraduate to doctoral. NYU offers an
excellent scholarly environment, with a large and rapidly expanding group of faculty working in computer and data science.

The CSE department has 21 tenured/tenure-track faculty members, including 13 NSF CAREER Award winners, as well as 13 contract faculty members. We have multiple tenure-track faculty slots open for growth. The department has a history of collaborative research across NYU, including with the Center for Urban Science and Progress, the Center for Data Science, the Grossman School of Medicine, the Global School of Public Health, the Courant Institute of Mathematical Sciences, and other Tandon School of Engineering Departments.

Departmental research areas include big data management, analysis, and visualization, security and privacy, algorithms and theory, and machine learning. We also have groups working in interdisciplinary research areas like AI for games, responsible AI, cybercrime, public health and social media, online political communication, urban computing, and sports analytics.

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.

Application Instructions

Please submit application materials electronically at the following link: https://apply.interfolio.com/119179

Applications should include a cover letter, current CV, research statement, teaching statement, recent teaching evaluations (if available), and 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. Please also list the names and contact information for three references. Referees will upload confidential letters of reference in the Interfolio system.

We will review applications starting immediately and will continue until we fill the position; we encourage you to submit early. For any questions, please contact: Juliana Freire, juliana.freire@nyu.edu.

Additional Information

In compliance with NYC’s Pay Transparency Act, the annual base salary range for this position is $105,000 - $175,000 for the Assistant Professor rank and $145,000 - $215,000 for the Associate Professor rank. New York University considers factors such as (but not limited to) scope and responsibilities of the position, candidate’s work experience, education/training, key skills, internal peer equity, as well as market and organizational considerations when extending an offer.
Professional Opportunities

Oberlin College

Visiting Assistant Professor of Computer Science

The Computer Science Department at Oberlin College invites applications for two full-time, non-continuing faculty positions in the College of Arts and Sciences. Appointment to these positions will be for a term of two years, beginning Fall semester of 2023 and will carry the rank of Visiting Assistant Professor.

The incumbent will teach 5 courses per year, with labs counting towards this total, at all levels of undergraduate Computer Science.

Among the qualifications required for appointment is the Ph.D. degree (in hand or expected by first semester of academic year 2023-24).

Review of applications will begin on March 1, 2023, and will continue until the position is filled. Completed applications received by the March 1 deadline will be guaranteed full consideration.

Please apply to the Oberlin job portal: https://jobs.oberlin.edu/postings/13533

Purdue University

Research Scientist/Engineer-Cyber/Cyber-Physical Security

Purdue University’s Center for Education and Research in Information Assurance and Security (CERIAS) in West Lafayette, Indiana, invites applications for a Research Scientist/Engineer to conduct cyber (IT) and cyber-physical (OT) security, resiliency, privacy autonomy, and/or trusted systems research. Project, dependent upon the researcher’s expertise, may include traditional IT security including cybersecurity policy, cyber-/cyber-physical security for advanced manufacturing/ICS, or secure autonomous systems.

Qualifications. Ph.D. in computer science or a related field (very flexible). Strong publication record (e.g., CHI, ICWSM). Experience working with large datasets, Python, NLP, and transformers preferred. See here: Link

Texas A&M University

APT (non-tenure) Open Rank-Instructional in Visual Computing

Position Description

The School of Performance, Visualization & Fine Arts (PVFA), Texas A&M University, invites applications for an open rank instructional professor faculty position in the Visual Computing and Computational Media (VCCM) Section. VCCM is the focus for scientific and technical research and teaching in PVFA. The school’s strength is in the merging of art and science across a broad range of creative pursuits. This will be a nine-month, full-time, non-tenure appointment with rank consistent with the applicant’s prior academic experience.

Candidates must have a graduate degree in computer science, computer engineering, electrical engineering, cybersecurity, or other computing-oriented field, plus two (2) years of successful R&D experience. Equivalent combinations of education and experience will be considered.

CERIAS, founded in 1998, is the world’s preeminent interdisciplinary academic research institute for cyber and cyber-physical systems.

For more information or to apply, please visit: https://bit.ly/3QTbZ1e

Stanford University

Postdoctoral Position in Interdisciplinary Computer Science

Stanford’s Institute for Human-Centered A.I. is looking for a postdoc to lead projects investigating patterns of digital media consumption using data from the Human Screenome Project. We seek to identify addictive aspects of online platforms that have been amplified by AI. The fellow will engage with intense time-series data (image, text, events). The position is jointly advised by experts in communication and psychology (Eichstaedt, Ram) and addiction psychiatry (Lembke).

We are developing an instructional team consisting of faculty whose career aspirations are in teaching. They will develop and teach courses in computer programming and the mathematical elements of visual computing at the undergraduate and graduate level, advise and mentor students, and participate in all aspects of the School’s activities. The team will provide key support for our BS, MS, and MFA programs in visualization. These programs train students for careers in computer animation, games, visual effects, interactive media, and graphic design, where strong technical skills,
Professional Opportunities

Application Instructions
Applicants should submit a cover letter, curriculum vitae, teaching statement, diversity statement, and a list of three references (including postal addresses, phone numbers and email addresses) when applying for this specific position at http://apply.interfolio.com/116475.

Review of applications will begin 30 days from posting. Applications will continue to be considered until the positions are filled. For additional application information, please contact the search committee chair Dr. Ergun Akleman, ergun.akuaman@tamu.edu.

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

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

The University of Alabama at Birmingham
Department of Computer Science
Teaching Assistant Professor/Instructor Position

The Department of Computer Science (CS) at the University of Alabama at Birmingham (UAB) is seeking candidates for two (2) non-tenure-track assistant

Qualifications

Together with sound artistic skills, are a must for building lasting careers. In addition, new degree programs within the school are being planned that will also combine the artistic with the technical.

Therefore, the appointment will require developing innovative ideas to solve the many curricular challenges created by our students’ diverse interests and educational backgrounds. Successful applicants will be encouraged to disseminate these ideas and experiences widely.

The School of Performance, Visualization & Fine Arts is charged with supporting research, innovative works, and teaching built upon our strength in merging art, science, and technology. The School offers excellent resources for interdisciplinary work, including the creation and use of specialized facilities for research in computational media and the arts, access to diverse populations of faculty and students, and recognition of collaborative work that is rewarded in the annual review and tenure and promotion processes.

Visual Computing and Computational Media is the technical teaching and research arm of the school. Our seven current faculty members all hold Ph.Ds in Computing, Engineering, or Physics.

The School of Performance, Visualization & Fine Arts is a new School within the Texas A&M University System and has a diverse and dynamic mission with 60 faculty and over 15 staff members and a projected exponential growth in the next 5 years. The school was formed from three departments/programs spread across the university: the Department of Performance Studies and the Dance Science program. The mission of the school places a heavy emphasis on faculty and student collaboration and interdisciplinary work in both scholarly and creative research.

Texas A&M University leadership has charged the new School with developing innovative research and creative works, public performances, and degree offerings at the undergraduate, graduate, and doctoral levels that build upon our strength in merging art and science. The new school is projected to move into a new, 5175m state-of-the-art visual and performing arts center. Construction is slated to begin in 2024.

Qualifications

A Ph.D. in computer science or related field is required. In unusual circumstances candidates without a PhD but who have a Master level degree appropriate for the field in which the faculty member will teach and significant teaching experience at the college/school level in the field or in a related field, or who have an extraordinary record of accomplishment in an applied setting could be considered. Strong written and verbal communication skills are required as is an enthusiasm for working with students from the range of backgrounds consistent with the technical, artistic, and humanistic disciplines represented in the School.

Applicants at the associate instructional professor or instructional professor level should have a recognized record of teaching accomplishment. Applicants should consult the school’s website (pvfa.tamu.edu) to review our academic and research programs, paying particular attention to our historically groundbreaking BS, MS, and MFA programs in visualization.
Professional Opportunities

The University of Alabama at Birmingham (UAB) is a comprehensive urban university with the nation’s fourth-largest public hospital (eighth-largest hospital in the nation and best hospital in Alabama), which has rapidly evolved into a world-renowned research university and health care center that ranks in the top ten nationally for student diversity. UAB is a Carnegie R1 research university. It has been consistently ranked highly, including being named the 2018 and 2019 Top Young University in the U.S. (top 10 worldwide, Times Higher Education World University Rankings), America’s Best Large Employer (Forbes, 2021), and America’s No. 4 Best Employer for Diversity (Forbes 2021). UAB is Alabama’s single largest employer and an engine of revitalization for Birmingham. With an enrollment of over 22,280 students, over 2,630 full-time faculty members, and a campus covering more than 100 city blocks, UAB is focused on the future of teaching, research, health care, and community service.

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

The candidate should have at least an MS, and preferably a PhD, degree in Computer Science or a closely related field. Industrial experience is desirable but not required. Applications should include a cover letter, a curriculum vitae, a statement of teaching philosophy, a teaching portfolio with relevant materials (e.g., syllabi, teaching evaluations, homework/projects, teaching innovations), and at least two references. Applications and all other materials should be submitted through UAB’s portal at People Admin: https://uab.peopleadmin.com/postings/16519

Review of candidates is underway, and the search will continue until the position is filled.

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

University of Alabama at Birmingham
Assistant Professor

The Department of Computer Science (CS) at the University of Alabama at Birmingham (UAB) is seeking candidates for three (3) tenure-track or tenured faculty positions. While preference is given to candidates at the Assistant
Professional Opportunities

Professor rank, highly qualified candidates at Associate Professor will also be considered.

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

The CS Department at UAB offers PhD, MS, BS, and BA programs. The Department has a strong research focus, and a strong commitment to teaching, service, and outreach. The Department recently moved to a brand-new facility at University Hall, and enrollments in its programs have quadrupled over the past few years. Research funding is expanding significantly, and the Department plays a leadership role in a center focusing on Cyber Security. Collaborations with UAB’s medical enterprise are strong and growing, with many opportunities for faculty to participate in interdisciplinary work. For additional information about the Department, please visit: https://www.uab.edu/cas/computerscience/.

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

A Ph.D. in Computer Science or a closely related field is required. Applications should include a cover letter, a curriculum vitae, a list of publications and scholarly achievements, a statement of future research plans, a statement of teaching experience and philosophy, and contact information for at least three professional references. Applications and all other materials should be submitted through UAB’s portal at PeopleAdmin: https://uab.peopleadmin.com/postings/16517.

Review of candidates is underway, and the search will continue until the position is filled.

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

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

University of British Columbia

Canada Research Chair, Tier I, in Robotics (tenured)

The Department of Electrical and Computer Engineering at the University of British Columbia (UBC), Vancouver campus, is seeking an internationally recognized leader in robotics for a Natural Sciences and Engineering Research Council (NSERC) Tier I Canada Research Chair (CRC) position. The Chair

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Professional Opportunities

position is expected to be a full-time tenured appointment made at the rank of Associate Professor or Professor. Tier 1 Chairs, tenable for seven years and renewable once, are for outstanding researchers acknowledged by their peers as world leaders in their fields.

We are seeking candidates with extensive expertise in the design of next generation robotics systems. Research areas of interest include, but are not limited to, intelligent systems, autonomous systems including self-driving vehicles, multi-agent systems, computer vision and imaging systems, learning systems including reinforcement learning, human-robot interaction, soft robotics, augmentative robotics, and advancements in robotics instrumentation and control systems. The successful candidate would be expected to drive the use of robotics technologies to advance research in autonomous systems with direct impact on society.

The Chair holder is expected to have a track record fostering collaborative and interdisciplinary research. The Chair holder will articulate a strategic plan for developing an exemplary research program that complements ongoing research programs at UBC and engages with local, national, and international research networks. The Chair holder is expected to play an active role in collaborating with a diverse group of researchers across UBC and local industry, in particular in areas related to robotics. The goal is to increase UBC’s visibility and research capability in robotics by leveraging the strength of existing research programs.

Applicants must meet the eligibility requirements for a Tier 1 CRC position. Tier 1 CRC nominees must be Professors or Associate Professors who are expected to be promoted to the Professor rank within one or two years of the nomination. The Canada Research Chairs Program supports outstanding researchers in areas that will further UBC’s strategic research plan. All Chair nominations are subject to review and final approval by the CRC Secretariat and appointment as a CRC is conditional upon their approval. Please consult the Canada Research Chairs website www.chairs.gc.ca for full program information and further details on eligibility criteria.

All applicants must hold a Ph.D. in a related discipline and be eligible for appointment as an Associate Professor or Professor in the Department of Electrical & Computer Engineering at UBC. They will possess a strong track record of scholarly eminence including an independent, internationally recognized research program, demonstrated evidence of success and excellence in teaching, and participation in academic and professional affairs. The successful candidate will lead an independent, internationally recognized research program, teach at the undergraduate and graduate levels, supervise and mentor Master’s and Ph.D. students, and provide service to the University and the community.

The successful candidate must either be registered, or be eligible to register, with Engineers and Geoscientists of British Columbia (https://www.egbc.ca).

In accordance with UBC’s CRC Equity, Diversity, & Inclusion Action Plan, and pursuant to Section 42 of the BC Human Rights code, the selection will be restricted to members in one or more of the following designated groups: women, visible minorities (members of groups that are racially categorized), persons with disabilities, and Indigenous Peoples. Applicants to Canada Research Chair positions are asked to complete this equity survey https://ubc.ca1.qualtrics.com/jfe/form/SV_6WJHoI75PtxRMu9 as part of the application process, and applicants must self-identify as belonging to one or more of the designated equity groups to be considered for the position.

Because the search is limited to those self-identifying as members of designated equity groups, candidates must also provide their name when completing the equity survey in order to be considered.

Personal information is collected under the authority of sections 26(a) and 26(c) of the BC Freedom of Information and Protection of Privacy Act. The information you provide will only be used to determine whether you qualify for participation in this hiring process. Equity Survey Data will be collected by the UBC Equity & Inclusion Office and only the names of those who identify as women, visible minorities (member of groups that are racially categorized) and/or Indigenous Peoples will be shared with the search committee.

Currently, UBC’s CRC complement has a gap in representation of persons with disabilities. Until such time as this is remedied, the names of those self-identifying as having a disability will be provided separately to the search
Professional Opportunities

As indicated above, to be considered for the position, applicants must self-identify as a member of one or more of the four designated groups using the equity survey (https://ubc.ca.qualtrics.com/jfe/form/SV_6WjHoI7SfPwrRMu9). This information will be stored in a secure database and made available only to members of the adjudication committee. Please submit applications online at https://apply.ece.ubc.ca. Applications should include the following:

- cover letter
- curriculum vitae
- research statement
- teaching statement,
- diversity statement addressing how they will contribute to an equitable and inclusive academic environment at UBC
- copies of two major publications

Applicants should also be prepared to provide contact information for at least four potential referees, from whom confidential letters of assessment can be obtained. The closing date for applications is March 15, 2023. Only complete applications will be considered by the committee.

Inquiries about the position may be sent to Professor Steven Wilton, Head of the Department of Electrical and Computer Engineering at chair-recruiting@ece.ubc.ca. The Chair position is expected to begin by January 1, 2024, but is negotiable.

In assessing applications, UBC recognizes the legitimate impact that leaves (e.g., maternity leave, leave due to illness) can have on a candidate’s record of research achievement. These leaves will be taken into careful consideration during the assessment process.

At UBC, we believe that attracting and sustaining a diverse workforce is key to the successful pursuit of excellence in research, innovation, and learning for all faculty, staff and students, and is essential to fostering an outstanding work environment. Our commitment to employment equity helps achieve inclusion and fairness, brings rich diversity to UBC as a workplace, and creates the necessary conditions for a rewarding career.

The University is committed to creating and maintaining an inclusive and equitable work environment for all members of its workforce, and in particular, for its employees with disabilities. Additionally, an inclusive work environment for employees with disabilities presumes an environment where differences are accepted, recognized, and integrated into current structures, planning, and decision-making modes.

We welcome colleagues with the experiences and skills to contribute to our principles of inclusion, equity, and diversity throughout campus life. Within our hiring process we will make efforts to create an inclusive and equitable process for all candidates (including but not limited to people with disabilities). Confidential accommodations are available on request for all candidates taking part in all aspects of the recruitment process. To confidentially request accommodations, please contact chair-recruiting@ece.ubc.ca.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person. All qualified candidates are encouraged to apply; however Canadians and permanent residents of Canada will be given priority.

The University of British Columbia is a global centre for research and teaching that is ranked among the top 40 universities in the world. The Department of Electrical and Computer Engineering is one of the largest academic units at UBC, with approximately 400 graduate students and 1,000 undergraduate students. Our department is anticipating significant renewal over the next few years as we strengthen key areas in high demand. Our research and teaching activities benefit from strong links to the Institute for Computing, Information and Cognitive Systems (ICICS), the Advanced Materials and Process Engineering Laboratory (AMPEL), and the Stewart Blusson Quantum Matter Institute (QMI), as well as strong collaborations with the Department of Computer Science and other units within the Faculty of Applied Science.
The department is situated on UBC’s Point Grey campus in Vancouver, British Columbia. Vancouver is consistently rated one of the world’s most livable cities. For more information about the Department of Electrical and Computer Engineering, please visit https://ece.ubc.ca/.

University of California, San Diego

Assistant Professor in CSE with a focus on Designing Just Future

The Department of Computer Science and Engineering seeks faculty candidates at the level of Assistant Professor whose research, teaching, and service will advance scholarship and institutional solutions for designing more just and equitable systems and structures. This faculty member will advance UC San Diego’s commitment to the inclusion of Indigenous, Black, and migrant communities, anti-racism, anti-oppression, equity, and social justice. We especially welcome candidates whose professional experience, community engagement, and personal background have facilitated their understanding of and ability to better serve students from Indigenous and other underrepresented populations.

Faculty hired under this Initiative will join the UC San Diego campus, the UC San Diego Design Lab, and the Indigenous Futures Institute to forge a new paradigm of engagement and collaboration that draws on the geographic, academic, institutional, and cultural strengths of our tri-national region across Southern California, Baja California, and the Kumeyaay region.

This search is part of a UC San Diego-wide cluster hire on Designing Just Futures that aims to recruit scholars who can contribute to the advancement of design, social justice, and Indigenous, Black, and migrant futures and seeks engagement with scholars across disciplines to address issues of territory, access and equity, and social and political debates pertinent to Indigenous, Black, border and migrant communities, while also working within their home departments and professional communities.

As part of their teaching portfolio, faculty hired under Designing Just Futures will be expected to design and teach courses that align with the department of Computer Science and Engineering, the Design Lab, and the Indigenous Futures Institute programs.

Topics of interest include but are not limited to:

- Sustainable Computing (e.g., battery-free, self-powered, biodegradable; low carbon and/or net-zero carbon).
- Technology to Increase Access (e.g., rural/remote broadband/ad-hoc networks; novel education techniques; disability/accessibility technologies, research and pedagogy focused on serving indigenous populations).
- Information and Communication Technologies (ICT) for Community Empowerment and Global Development (e.g., civic technology, community information platforms; resident-driven data science; systems and implementation-oriented ICT work).
- Ethical Computing (e.g., systems to interface law, policy, and technology; disinformation comprehension/mitigation; structural BPC/STEM work; infrastructure/implementations to decolonize technology).

Berkeley

University of California

Lecturer Pool - Molecular Science and Software Engineering - College of Chemistry

The School of Information at the University of California, Berkeley seeks applications for a pool of part-time, non-tenure track lecturers to teach courses in the Master’s in Information and Data Science (MIDS) Program. For more information about the position, including required qualifications and application materials go to: https://apptrkr.com/3853596

The University of California is an Equal Opportunity/Affirmative Action Employer.

The School of Information is interested in candidates who will contribute to diversity and equal opportunity in higher education through their teaching or other related areas.

UC Berkeley has an excellent benefits package as well as a number of policies and programs to support employees as they balance work and family, if applicable.

Please direct questions to: pmarchetti@berkeley.edu.
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• Computing for social justice (e.g. helping to enable core values of equal rights and equal opportunity through science and technology)
• Measuring, Understanding, and Mitigating Bias in Computer Systems and Algorithms; designing Computer Systems with less Bias.
• Designing more accessible and inclusive health technology (e.g., mHealth; health literacy interventions; medication adherence/support).
• Mixed Physical-digital Interactions and Cyber-physical Systems (e.g. VR, AR, XR).

We are looking for applicants with outstanding research credentials and a promise for leading research and pedagogical initiatives that advance a Just Future, with applications to Indigenous, Black, and migrant Futures.

A Ph.D. or advancement to candidacy in Computer Science & Engineering or related disciplines is required at the time of application.

Salary and rank will be commensurate with qualifications in conformance with University of California policies.

The CSE Department is committed to building an excellent, diverse, and inclusive faculty, staff and student body. In addition to the highest standards of scholarship, teaching, and professional activity, successful candidates for this position will have potential or demonstrated contributions to a climate that supports equity, inclusion, and diversity, with a specific focus on contributing to Just Futures, with applications to Indigenous, Black, and migrant Futures. The application requires a Contribution to Diversity Statement that should highlight a well-articulated plan building on past experiences creating or contributing to programs that aim to increase access and success of underrepresented students and faculty, while also having a broader impact on society through a focus on Just Futures. For further information and guidance on preparing contributions to diversity statements, see:

https://jsoe-ap.ucsd.edu/sites/jsoe-ap.ucsd.edu/files/academic-personnel/diversity/C2D_Expectations.pdf

and

http://facultydiversity.ucsd.edu/recruitment/contributions-to-diversity.html

CSE is home to over 70 faculty and 1,000 graduate students who span a range of research areas in computer science, computer engineering and bioinformatics. In addition, the department works closely with multiple centers which provide unique opportunities and resources. More information can be found at http://www.cse.ucsd.edu.

We encourage candidates to send applications as soon as possible. Review of applications will commence on February 13, 2023 and continue until positions are filled.

To apply, submit the materials described below at the website: https://apol-recruit.ucsd.edu/JPF03497

Please submit a:
• Cover letter
• Curriculum vitae
• Research and teaching statements. Candidates are encouraged to highlight significant third-party coverage (e.g. national news outlets covering their work) in their statements and presentation materials where appropriate
• Designing Just Futures Statement (1 page): Applicants should describe how currently or planning to engage in frameworks focused on futures, futurities, and/or futurism at the intersections of design and social justice that prioritize Indigenous, Black, and migrant communities.
• 3 to 5 reference letters addressing research, teaching, professional service
• A separate statement describing your past efforts and future plans to promote diversity, equity and inclusion

For applicants with interest in spousal/partner employment, please see the UCSD Partner Opportunities Program. https://aps.ucsd.edu/recruitment/pop/index.html

UC San Diego was built on the unceded territory of the Kumeyaay people. Today and every day we honor their stewardship of this land and their tremendous contributions to our region. Land acknowledgements are an important gesture of collective recognition and accountability. But we also commit ourselves to action, to truth in learning and teaching the history of this place and its people, a reckoning with injustices, past and present, and a pathway forward
Professional Opportunities

that respects the dignity and human rights of all.

The posted UC salary https://www.ucop.edu/academic-personnel-programs/_files/2022-23/oct-2022-salary-scales/t3.pdfscales set the minimum pay determined by rank and/or step at appointment. See Table 3 FACULTY--LADDER RANKS--BUSINESS/ECONOMICS/ENGINEERING ACADEMIC YEAR for the salary range. ‘Off-scale salaries’ and other components of pay, i.e., a salary that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions.

The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, covered veteran status, or other protected categories covered by the UC nondiscrimination policy.

As a condition of employment, you will be required to comply with the University of California SARS-CoV-2 (COVID-19) Vaccination Program Policy. All Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. Please refer to Appendix F, Section II.C. of the policy for the deadlines applicable to new University of California employees. (Capitalized terms in this paragraph are defined in the policy.) Federal, state, or local public health directives may impose additional requirements.

The University of California prohibits smoking and tobacco use at all University controlled properties.

The UC San Diego Annual Security & Fire Safety Report is available online at https://www.police.ucsd.edu/docs/annualclery.pdf. This report provides crime and fire statistics, as well as institutional policy statement & procedures. Contact the UC San Diego Police Department at (858) 534-4361 if you want to obtain paper copies of this report.

University of Central Arkansas

Non-Tenure-Track Positions in Computer Science and Tenure-Track Positions in Cybersecurity

The Department of Computer Science and Engineering at the University of Central Arkansas is seeking candidates for two non-tenure-track Lecturer I positions in Computer Science and two tenure-track Assistant Professor positions in Cybersecurity, Cybersecurity Engineering, or Cyber Engineering beginning in August 2023. Currently, the department has 13 full-time faculty members and offers BS programs in Computer Science (accredited by the ABET CAC), Computer Engineering, Cybersecurity, and Data Science, as well as an MS program in Computer Science.

For the lecturer positions, a Master’s degree in Computer Science, Computer Engineering, Electrical Engineering, or a related discipline is required. For the assistant professor positions, a doctorate in Computer Science, Computer Engineering, Electrical Engineering, or a related discipline with a focus on Cybersecurity, Cybersecurity Engineering, or Cyber Engineering is required. However, candidates nearing completion will also be considered for both types of positions.

Applicants should submit a cover letter, a curriculum vitae, statements of teaching and research (only for the assistant professor positions), unofficial transcripts, and contact information for at least three references via https://jobs.uca.edu/postings/12410 (lecturer positions) or https://jobs.uca.edu/postings/11725 (assistant professor positions).

The review of applications will begin on March 1, 2023, and will continue until the positions are filled.

For questions, contact the department chair at ecelebi@uca.edu. Additional information about the department is available at https://uca.edu/cse.

UCA is an EO/AA Employer.

University of Chicago

Instructional Professor - Computational Social Science

Position: We are hiring an Instructional Professor in Computational Social
Science in the Master of Arts Program in Computational Social Science (MACSS) at the University of Chicago.

**Qualifications:** We welcome candidates from the broad research and teaching areas of computational social science, computational psychology, information science, and data science. Potential areas of focus include but are not limited to machine learning, deep learning, digital experimentation, natural language processing, data science, and data mining. We especially welcome applications from members of underrepresented groups in computing.

**Program:** The Master of Arts in Computational Social Science (MACSS) is a two-year interdisciplinary MA program that trains students in the theory and methods of algorithmic, cutting-edge computational techniques. The IP is a professional track at the University of Chicago, open to rank, including at the Assistant, Associate, or full Instructional Professor level. The teaching load consists of four courses and mentoring responsibilities within the program.

More information can be found in this link and applications can be submitted through Interfolio: [http://apply.interfolio.com/119626](http://apply.interfolio.com/119626)

**EEO Statement**

All University departments and institutes are charged with building a faculty from a diversity of backgrounds and with diverse viewpoints; with cultivating an inclusive community that values freedom of expression; and with welcoming and supporting all their members.

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](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.

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**University of Illinois at Chicago**

**Tenure Track Faculty (Computer Science)**

**Extended Search**

Located in the heart of Chicago, the UIC CS department anticipates hiring multiple tenure track faculty at all ranks starting from Fall 2023 (with preference to candidates at the Assistant and Associate Professor ranks). Candidates working in Computer Systems and Networks, Languages and Compilers, Software Engineering, Computer Graphics, Computer Security, Cryptography, Databases, and related areas are especially encouraged to apply. Outstanding candidates in all areas who could complement and enhance current department strengths will be considered. Candidates should have a PhD in Computer Science, Computer Engineering, or closely related fields, and the potential for excellence in teaching and research.

Applications must be submitted at [https://jobs.uic.edu/](https://jobs.uic.edu/) and must include a 1-page cover letter, curriculum vitae, teaching, research and diversity statements, and names and addresses of at least three references. Links to a professional website such as Google Scholar or Research Gate are recommended.

Applicants may contact the faculty search committee at cs-tt-search@uic.edu for more information.

For fullest consideration, applications must be submitted by November 30, 2022. Applications will be accepted until the positions are filled.

The Department of Computer Science at UIC, which is expected to hire between 15 and 25 new faculty in the next 5 years, has 42 tenure-system faculty, 5 research faculty with strong and broad research agendas, and 17 clinical/teaching faculty. The department is committed to building a diverse faculty preeminent in its missions of research, teaching, and service to the community. Candidates who have experience engaging with
Professional Opportunities

a diverse range of faculty, staff, and students, and contributing to a climate of inclusivity are encouraged to discuss their perspectives on these subjects in their application materials.

Construction of a new building housing the UIC Computer Science department is under way; the building is expected to open in calendar 2023. The building will include 80 faculty offices, 16,000 square feet of classroom space, 23 shared student offices, many collaborative learning and teaching spaces, and a geothermal farm to assist with sustainable heating and cooling.

UIC is a major public research university (Carnegie R1) with about 3,100 faculty and 34,000 students. UIC is committed to increasing access to education, employment, programs, and services for all. UIC is committed to supporting the success of dual-career couples.

Chicago epitomizes the modern, livable, vibrant, and diverse city. World-class amenities like the lakefront, arts and culture venues, festivals, and two international airports make Chicago a singularly enjoyable place to live. Yet the cost of living, whether in an 88th floor condominium downtown or on a tree-lined street in one of the nation’s finest school districts, is remarkably affordable.

Duties & Responsibilities
Teach
Conduct Research
Mentor Students

Qualifications:
Minimum Qualifications
PhD in Computer Science, Computer Engineering or closely Related Field and the Potential for Excellence in Teaching and Research

The University of Illinois at Chicago is an affirmative action, equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, gender identity, sexual orientation, national origin, protected veteran status, or status as an individual with a disability.

Offers of employment by the University of Illinois may be subject to approval by the University’s Board of Trustees and are made contingent upon the candidate’s successful completion of any criminal background checks and other pre-employment assessments that may be required for the position being offered. Additional information regarding such pre-employment checks and assessments may be provided as applicable during the hiring process.

The University of Illinois System requires candidates selected for hire to disclose any documented finding of sexual misconduct or sexual harassment and to authorize inquiries to current and former employers regarding findings of sexual misconduct or sexual harassment. For more information, visit https://www.hr.uillinois.edu/cms/One.aspx?portalId=4292&pageId=1411899.

The University of Iowa
Tippie College of Business
Instructional-Track Faculty Position(s) in Business Analytics

The Department of Business Analytics at The University of Iowa invites applicants for one or more academic-year positions in the undergraduate and master’s programs, starting August 16, 2023. Rank will be based on experience and record of achievement. Position(s) may range from 75% time (teaching 6 classes/year) to 100% time (teaching 8 classes/year) and include a 1-3 year contract with benefits. For more information about the Instructional Faculty policy, refer to the Operations Manual, III 10.11.

Salary will be commensurate with qualifications.

https://jobs.uiowa.edu/faculty/view/74711

Explore our recruiting website at https://www.biz.uiowa.edu/search/iowa-city/

University of Louisiana at Lafayette
Multiple Assistant Professor Positions in Computer Science and Informatics

We are seeking to hire a dynamic scholar who will be an active researcher and educator in Computer Science and/or Informatics, specializing in a broad set of areas of 1. Computer Science, Computer Engineering or Informatics. 2. Cybersecurity and/or Security of Cyber-Physical Systems. 3. Artificial Intelligence.
including, but not limited to, machine learning, natural language processing, computer vision, robotics, and AI for Health, Energy, as well as candidates combining a strong research program in AI with research in other areas of computer science, data science, and computer engineering and other disciplines.

Successful candidates will be expected to collaborate with colleagues across the campus, who will demonstrate institutional citizenship through active engagement at the School, college, university, community, and professional levels, and who will discharge other duties normally associated with a university faculty appointment. The candidate must maintain an ongoing involvement with the professional community through activities of IEEE and ACM.

The successful applicant must have a Ph.D. degree in Computer Science or a closely related field by the date of appointment. Applicants will have an established record of or demonstrated potential for excellence in research, teaching and service. Applicants must possess the skills normally associated with R1-university level. The applicant’s professional experience must be significant both in extent and level of responsibility. Successful candidate must be committed to working effectively with diverse student populations. Applicants are expected to describe their commitment to fostering a highly impactful multi-disciplinary research program. Applicants should submit, along with the cover letter and a comprehensive resume, research and teaching statement, publication record and 3 reference letters.

University of Memphis
Assistant/Associate Professor of Data Science

The Data Science Center at the University of Memphis is seeking candidates for Assistant/Associate Professor position(s) beginning Fall 2023. Qualified candidates in all areas of data science and related fields such as Computer Science and Statistics are invited. Successful candidates are expected to develop externally sponsored research programs, lead or participate in collaborative research projects within Data Science and beyond, teach both undergraduate and graduate courses and provide academic advising to students at all levels. Candidates from minority and underrepresented groups are highly encouraged to apply.

Applicants should hold a Ph.D. in Data Science, Computer Science, or a related discipline, and be committed to excellence in both research and teaching a diverse student body. Salary is highly competitive and dependent upon qualifications. We particularly welcome candidates from groups that are historically underrepresented in our field and/or have demonstrated leadership toward building an equitable and inclusive scholarly environment. The Data Science Center and related programs (www.memphis.edu/datascience) offers an M.S. program and is anticipated to offer undergraduate and Ph.D. programs. In addition, Data Science faculty work closely with other departments and multidisciplinary centers at the university such as the Institute for Intelligent Systems (IIS).

Review of applications will begin December 15, 2022 and continue until filled.

Interested applicants may apply at https://workforum.memphis.edu/postings/34654

University of North Carolina at Charlotte
Faculty Position

We are seeking applications for two Teaching Professor positions at any rank. Successful candidates will be expected to teach courses in core areas of computer science at both the undergraduate and graduate levels. mentor/advise students, develop new curriculum and courses, practice education innovation, contribute to diversity, accessibility and inclusion improvements, and engage students in extra-curricular and undergraduate research activities. An ideal applicants will have a combination of a PhD degree in CS or a closely related discipline (required) and prior experience teaching online and in-person computer science courses.
The anticipated start date is Fall 2023. A detailed description of the position and the application process are available at: https://jobs.charlotte.edu/postings/47702

UNC Charlotte is North Carolina’s urban research university. Located in the state’s largest metropolitan area, UNC Charlotte is among the fastest growing universities in the UNC System.

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

University of Pittsburgh

School of Computing and Information

Appointment Stream Faculty positions

As the University of Pittsburgh’s newest school, the School of Computing and Information (SCI) is a growing interdisciplinary community of faculty, staff and students who are accustomed to progressing through change, thinking beyond boundaries and innovating new approaches to lead our institution and nation to positive change. Since 2017, SCI has hired more than thirty-five faculty members, and we are continuing our growth with multiple openings in the tenure stream this year. At SCI, we particularly seek candidates that support our mission in creating, nurturing and sustaining an equitable environment that values our differences and promoting these values within and beyond our school.

The University of Pittsburgh is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. SCI is fostering an equitable and inclusive community with our scholarship, education and faculty development initiatives, including policies to promote a healthy work-life balance, programs to meet the needs of two career couples, and a commitment to recruit, retain and develop a diverse faculty. We are particularly interested in candidates with a demonstrated commitment to working with students from diverse backgrounds, and those whose teaching, service, and research will aim to address societal issues and contribute to the diverse values of our department and school.

About the Position(s)

We have several Teaching Assistant Professor - Appointment Stream openings in the following areas:

- Computer Science
- Data Science

Minimum required qualifications

- Candidates should hold a PhD degree in computer science, data science, information science or some closely related area
- Candidates should hold the PhD degree by September 2023

Application Process

Individuals interested in these openings may apply at https://sci.pitt.edu/recruiting. A completed application includes a cover letter, curriculum vitae, teaching statement, statement of commitment to creating a diverse and inclusive community, the names of three references, and a research statement that describes the candidate’s research and potential contributions to the SCI mission.
and contact information for at least three recommenders for applications for positions at the assistant professor level and teaching evaluations if available.

Application review will begin immediately. We anticipate that interviews will begin in January 2023. Please refer to the position descriptions for preferred qualifications and application deadlines.

The anticipated start date is September 1, 2023.

Questions about these positions and/or application status should be emailed to sci-recruit@pitt.edu.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity. EOE, including disability/vets.

University of Rochester

Data Scientist

Applications are invited for a data scientist supporting a large research program studying flow of cerebrospinal fluid in the brain. The data scientist will manage storage and analysis infrastructure, build novel analysis tools, and share data and software publicly. Data will come from MRI imaging, two-photon imaging, and fluid dynamics simulations. The data scientist will streamline workflows, provide organized storage infrastructure, and develop machine-learning algorithms for image analysis. MS or PhD in a data-intensive field is required. Experience with imaging, large data sets, and modern AI methods is key; experience with neuroscience is desirable.

Resources and opportunities for collaboration are excellent. The data scientist will be affiliated with the Goergen Institute for Data Science, make extensive use of the BlueHive computing cluster, and collaborate closely with experimentalists and modelers from five leading teams at four universities. Funds are secure for four years. We offer generous salaries with good benefits.

Available immediately. Email CV and cover letter to d.h.kelley@rochester.edu.

More information:
http://hajim.rochester.edu/me/sites/kelley/people.html#DataScientistOpening

University of South Carolina

Department of Computer Science and Engineering College of Engineering and Computing

Faculty Position

The University of South Carolina invites applications for a tenure-track faculty position at open rank in the Department of Computer Science and Engineering, starting Fall 2023. The Department will consider exceptional candidates in any areas but is particularly interested in candidates whose primary research expertise is in Quantum Computing, Cyber Security, Computational Biology, or Robotics.

Eligible candidates must possess a Ph.D. in computer science or a closely related field by start date of employment (ABDs considered) and a demonstrated record of research accomplishments in their area of expertise.

Successful candidates will be expected to develop internationally recognized, externally funded research programs that complement existing strengths in the department. The ideal candidate will be able to combine two or more areas to pursue funding in interdisciplinary research. To serve the diverse student population of the university, all faculty members are expected to engage and mentor students from underrepresented groups.

Application review begins February 1st, 2023 and remains open until the position is filled. Interested applicants should apply via https://uscjobs.sc.edu/postings/137072 with the following information: cover letter, curriculum vitae, a concise description of research and teaching plans, and names and contact information of three references.

The anticipated start date is September 1, 2023.

Questions about these positions and/or application status should be emailed to sci-recruit@pitt.edu.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity. EOE, including disability/vets.
Cybersecurity education and research activities are centered in the Department of Computer Science and Engineering in the College of Engineering and Computing. The College of Engineering and Computing (CEC) has recently joined the IBM Quantum Hub, a worldwide community of leading Fortune 500 companies, startups, academic institutions, and national research labs working with IBM to advance quantum computing.

The Department offers B.S. degrees in Computer Science, Computer Information Systems, and Computer Engineering, M.S. and Ph.D. degrees in Computer Science and Computer Engineering, and a Graduate Certificate in Cyber Security Studies. The Department has 21 full-time faculty members (10 of whom are NSF CAREER award recipients), an undergraduate enrollment of approximately 900 students, a graduate enrollment of 175 students, and over $3.5 million in annual research expenditures.

The University of South Carolina does not discriminate in educational or employment opportunities on the basis of race, sex, gender, gender identity, transgender status, age, color, religion, national origin, disability, sexual orientation, genetics, protected veteran status, pregnancy, childbirth or related medical conditions.

University of South Florida

Instructional Faculty, Computer Science and Engineering

The University of South Florida invites applications for instructional faculty in Computer Science and Engineering. The Department of Computer Science and Engineering is seeking to hire multiple instructional faculty at the levels of Assistant and Associate Professor of Instruction who can teach a broad range of core and elective courses at the undergraduate and graduate levels in computer science, computer engineering, cybersecurity, and information technology. Special emphasis is on candidates who have a strong capability in teaching hands-on skills in cybersecurity. Interest or past experience in advising student organizations for cybersecurity competitions is desired. Candidates must have completed a PhD in computer science, computer engineering, cybersecurity, information technology, or a related engineering area from an accredited institution. Preference will be given to candidates with industry experience and/or teaching experience in an ABET accredited program. We expect successful candidates to contribute to our diversity and inclusion efforts. This recruitment is for a non-tenure earning full-time 12-month position. Successful candidates are expected to start in spring 2023 or fall 2023.

Computer Science and Engineering has 28 tenure-track/tenured faculty members, 11 full-time instructional faculty, 2 visiting assistant professors, and 7 staff members/advisors, and offers BS, MS, and PhD degrees, serving over 2600 undergraduates, over 200 masters, and about 100 PhD students. USF CSE has a strong working relationship with CyberFlorida. CSE ranks include eleven NSF CAREER awardees, one National Academy of Inventors (NAI) Fellow, three IEEE Fellows, three IAPR Fellows, three AAAS Fellows, and three AIMBE Fellows. USF CSE is in the top 15% of Computer Science departments in US public universities. This ranking is according to most recent Academic Analytics data based on Scholarly Research Index AAD2020 using default weights for grants, articles, conferences, awards, and citations. For the fiscal year 2020-2021, the CSE had $4.5 million in research expenditures with funding from NSF, DARPA, NIH, and the industry.

Established in 1964 and currently led by Dean Robert H. Bishop, the College of Engineering at the University of South Florida is ranked #57 among public institutions (#92 overall) by U.S. News & World Report’s 2023 engineering graduate school rankings. The college serves more than 6,600 students, offering eleven bachelor’s programs, nine are ABET-accredited, as well as 15 master’s and eight doctoral degrees. The College is actively engaged in local and global research activities focused on sustainability, biomedical engineering, artificial intelligence, cybersecurity, and transportation.

The University of South Florida is a high-impact global research university dedicated to student success, generates an annual economic impact of more than $6 billion. Over the past 10 years, no other public university in the country has risen faster in U.S. News and World Report’s national university rankings than USF.
Professional Opportunities

Serving more than 50,000 students on campuses in Tampa, St. Petersburg and Sarasota-Manatee, USF is designated as a Preeminent State Research University by the Florida Board of Governors, placing it in the most elite category among the state’s 12 public universities. USF has earned widespread national recognition for its success graduating underrepresented minority and limited-income students at rates equal to or higher than white and higher income students. Learn more at www.usf.edu.

An application package should include a cover letter, curriculum vitae, statement describing teaching experience and goals, and the names and contact information of at least three references (one of which must be the current immediate supervisor of the applicant). In your statement, please share your understanding of diversity and how you have been effective at promoting inclusive excellence among diverse populations in teaching. Applicants must electronically submit the application packet as one PDF file to: https://www.usf.edu/work-at-usf/careers. For consideration, please apply to the appropriate position level (Assistant Professor of Instruction, search Job ID #32116 and Associate Professor of Instruction, search Job ID #32118).

Applications will be considered starting immediately.

USF celebrates diversity and inclusive excellence in alignment with our Principles of Community. We believe our future success as an institution requires that we attract and retain a diverse workforce. We are proud to be an equal opportunity workplace and an affirmative action employer. All job decisions at USF are made without regard to race, color, ethnicity, religion or belief, age, disability, sexual orientation, gender identity or any other status protected by the laws or regulations in the locations where we operate. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution. Women and minorities are strongly encouraged to apply. Dual career couples with questions about opportunities are encouraged to contact the Department chair. To request disability accommodations in the application and interview process, please notify Khoa Dinh, the EOL Coordinator at (813) 974-9272 at least five working days in advance.

University of South Florida

Computer Science and Engineering

Tenure-Track Positions at All Ranks

The University of South Florida invites applications for tenure-track positions at all ranks Computer Science and Engineering. Applications are invited for multiple tenure-track positions at all ranks in the Department of Computer Science and Engineering. Preference will be given to candidates in strategic research areas that have high funding potential from federal funding agencies including NSF, NIH, DARPA, etc. This includes, but is not limited to, human-centered computing, software engineering, AR/VR, artificial intelligence, cybersecurity, social networks, and other high societal impact areas with a broad set of interested funding agencies. All candidates should have an established record of high-quality research publications, a commitment to excellence in teaching, and a willingness to collaborate with others in the department. Candidates for senior-level positions should also have an established research program with current funding. We expect successful candidates to contribute to our broadening participating in computing initiative. Candidates must have completed a PhD in computer science or a related discipline by the start time of the position. Affiliation with the USF Institute for Artificial Intelligence + X and/or the Institute of Applied Engineering is possible for candidates with research areas that meet institute needs. The Institute for AI + X is a university wide research and education center for AI with a focus on collaboration across disciplines. The Institute of Applied Engineering provides agile, best-value engineering solutions to enhance the performance, effectiveness and safety of its sponsors, including the Department of Defense, other federal, state and local agencies, and industry. Successful candidates could start in Spring 2023 or Fall 2023.

Computer Science and Engineering has 28 tenure-track/tenured faculty members, 11 full-time instructional faculty, 2 visiting assistant professors, and 7 staff members/advisors, and offers BS, MS, and PhD degrees, serving over 2600 undergraduates, over 200 masters, and about 100 PhD students. USF CSE has a strong working relationship with CyberFlorida. CSE ranks include eleven NSF CAREER awardees, one National Academy of Inventors (NAI) Fellow, three...
IEEE Fellows, three IAPR Fellows, three AAAS Fellows, and three AIMBE Fellows. USF CSE is in the top 15% of Computer Science departments in US public universities. This ranking is according to most recent Academic Analytics data based on Scholarly Research Index AAD2020 using default weights for grants, articles, conferences, awards, and citations. For the fiscal year 2020-2021, the CSE had $4.5 million in research expenditures with funding from NSF, DARPA, NIH, and the industry.

Established in 1964 and currently led by Dean Robert H. Bishop, the College of Engineering at the University of South Florida is ranked #57 among public institutions (#92 overall) by U.S. News & World Report’s 2023 engineering graduate school rankings. The college serves more than 6,600 students, offering eleven bachelor’s programs, nine are ABET-accredited, as well as 15 master’s and eight doctoral degrees. The College is actively engaged in local and global research activities with $41 million in research expenditures for the fiscal year 2020-2021. The College has 12 major research centers and institutes and is actively engaged in local and global research activities focused on sustainability, biomedical engineering, artificial intelligence, cybersecurity, and transportation.

The University of South Florida is a high-impact global research university dedicated to student success, generates an annual economic impact of more than $6 billion. Over the past 10 years, no other public university in the country has risen faster in U.S. News and World Report’s national university rankings than USF. Serving more than 50,000 students on campuses in Tampa, St. Petersburg and Sarasota-Manatee, USF is designated as a Preeminent State Research University by the Florida Board of Governors, placing it in the most elite category among the state’s 12 public universities. USF has earned widespread national recognition for its success graduating under-represented minority and limited-income students at rates equal to or higher than white and higher income students. Learn more at www.usf.edu.

An application package should include a cover letter, curriculum vitae, statements describing research and teaching experience and goals, and the names and contact information of at least three references (one of which must be the current immediate supervisor of the applicant). In your statements, please share your understanding of diversity and how you have been effective at promoting inclusive excellence among diverse populations either in teaching or research.

Applicants must electronically submit the application packet as one PDF file to: https://www.usf.edu/work-at-usf/careers.

For consideration, please apply to the appropriate position level (Assistant Professor, search Job ID #32109, Associate Professor, search Job ID #32110, Full Professor, search Job ID #32111). Applications will be considered starting immediately.

USF celebrates diversity and inclusive excellence in alignment with our Principles of Community. We believe our future success as an institution requires that we attract and retain a diverse workforce. We are proud to be an equal opportunity workplace and an affirmative action employer. All job decisions at USF are made without regard to race, color, ethnicity, religion or belief, age, disability, sexual orientation, gender identity or any other status protected by the laws or regulations in the locations where we operate. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution. Women and minorities are strongly encouraged to apply. Dual career couples with questions about opportunities are encouraged to contact the Department chair. To request disability accommodations in the application and interview process, please notify Khoa Dinh, the EOL Coordinator at (813) 974-9272 at least five working days in advance.

University of Tennessee at Chattanooga

Assistant Professor of Cyber Security

The Department of Computer Science and Engineering in College of Engineering and Computer Science at the University of Tennessee at Chattanooga invites applications for the position of Assistant Professor, Cyber Security, with the anticipated starting date of August 1, 2023.

Details of application requirements can be found at https://ut.taleo.net/careersection/utc_faculty/jobdetail.ftl?job=22000002MR

Applications must be submitted electronically by clicking on “Apply Online” on the above webpage. Review of applications will begin immediately and continue until the position is filled.
Professional Opportunities

The University Of Texas at El Paso
Faculty Positions In Computer Science

The Department of Computer Science at UTEP invites applications for the following faculty positions starting in fall 2023.

Tenure-track positions:
- Assistant Professor with preference for candidates in the area of Cybersecurity.
- Clare Booth Luce (CBL) Assistant Professor with preference for candidates in the area of Data Science or Secure Software Systems, and commitment to Inclusive Excellence and diversity, equity, inclusion, and accessibility. The hiring of the successful candidate must be approved by the Henry Luce Foundation (https://www.hluce.org/)

Open-rank position:
- Faculty position with preference for candidates in the area of Software Engineering.

To view the full ads and apply, please visit https://www.utep.edu/employment.

For more information on the Department of Computer Science at UTEP, please visit https://www.utep.edu/cs/.

UTEP is an Equal Employment Opportunity/Affirmative Action employer.

Wayne State University
Assistant Professor, Tenure Track, Computer Science

Located in the mid-town of Detroit, the Wayne State University (WSU) Computer Science department anticipates hiring a tenure track faculty at the assistant professor level starting from Fall 2023. Outstanding candidates in all areas who could complement and enhance current departmental strengths will be considered. Candidates working in Cybersecurity, Software Engineering, Human-Computer Interactions, and related areas are especially encouraged to apply. Candidates should have a Ph.D. in Computer Science, or closely related field, and the potential for excellence in teaching and research.

Applications must be submitted at https://jobs.wayne.edu

Wayne State University
Tenure-track/Tenured Professor

Wayne State University is pursuing a bold initiative to hire 40 diverse candidates across the university to create a strong interdisciplinary group to profoundly impact the African American community through research, teaching and engagement.

As a part of this broader initiative, the College of Engineering will be hiring five faculty through a multi-year college-wide cluster hire. Outstanding candidates in any engineering/computer science related field who could complement and enhance current departmental strengths will be considered. Candidates should have a Ph.D. in Engineering, Computer Science, or a closely related field, by Fall 2023 and the potential for excellence in teaching and research.

Applications must be submitted at https://waynetalent.csod.com/ux/ats/careersite/2/home/requisition/718?c=waynetalent
and must include a curriculum vitae, teaching and research statements, and names and addresses of at least three references. Links to a professional website such as Google Scholar or DBLP are recommended.

For full consideration, applications must be submitted by March 1, 2023. Applications will be accepted until the positions are filled.

The Department of Computer Science at Wayne State has 23 tenure-stream faculty and 6 teaching faculty, with 5 NSF CAREER awards, 6 NSF CRII awards, and about $2M in annual research expenditure. Currently it has over 1000 undergraduate students and about 200 graduate students. The department is committed to building a diverse faculty preeminent in its missions of research, teaching, and service to the community. Candidates who have experience engaging with a diverse range of faculty, staff, and students, and contributing to a climate of inclusivity are encouraged to discuss their perspectives on these subjects in their application materials.

WSU is a major urban research university (Carnegie R1) with about 2,500 faculty and 27,000 students. WSU is committed to increasing access to education, employment, programs, and services for all. WSU is a premier, public, urban research university located in the heart of Detroit where students from all backgrounds are offered a rich, high-quality education. Our deep-rooted commitment to excellence, collaboration, integrity, diversity, and inclusion creates exceptional educational opportunities preparing students for success in a diverse, global society. WSU encourages applications from women, people of color and other underrepresented people. WSU is an affirmative action/equal opportunity employer.

Detroit epitomizes the modern, livable, vibrant, and diverse city. World-class amenities like the US-Canada riverfront, Detroit Institute of Arts, culture venues and festivals, as well as an international airport (DTW) that flies non-stop to worldwide destinations. There are several satellite cities within 25 miles of metro-Detroit that are ranked as the top-100 most suitable for living cities (e.g., Troy, Ann Arbor, Birmingham, Novi) with the nation’s finest school districts.

Offers of employment by the WSU may be subject to approval by the University’s Board of Trustees and are made contingent upon the candidate’s successful completion of any criminal background checks and other pre-employment assessments that may be required for the position being offered. Additional information regarding such pre-employment checks and assessments may be provided as applicable during the hiring process.

Wellesley College
Instructor in Computer Science Laboratory

The Computer Science Department at Wellesley College invites applications for a full-time Instructor in Computer Science Laboratory, starting in the Fall of 2023. Responsibilities include preparing and teaching laboratory or lecture sections in introductory and intermediate computer science courses, as well as coordinating student tutors and learning support for these courses. The position provides opportunities for curriculum development, exploration of new pedagogy, as well as student advising and mentorship. Applicants should have a broad background in Computer Science and strong teaching and interpersonal skills. Ideal candidates will have at least a Master’s degree in Computer Science or a related field.

Information about the department can be found at https://www.wellesley.edu/cs. Applicants should submit a cover letter, curriculum vitae, and statement about teaching interests and experience. at https://www.wellesley.edu/hr/jobseekers. We encourage candidates to include in their teaching statements past experiences, activities, and future plans that advance diversity, equity, and inclusion in computing, and to comment on their experiences with mentoring underrepresented students. The names/email addresses of three references are requested. (The online application system will request names/email addresses so that recommenders or dossier services may submit the letters directly.)

Applications will be reviewed starting February 20, 2023. If there are difficulties submitting online, please contact working@wellesley.edu for assistance. Questions about the position should be directed to the incoming department chair, Prof. Orit Shaer at oshaer@wellesley.edu.

Wellesley College is an Affirmative Action/Equal Opportunity Employer committed to Inclusive Excellence, and we encourage persons of all genders, persons of color,
Two Year Visiting Assistant Professor of Computer Science

The Department of Computer Science at Vassar College invites applications for a two-year position at the rank of Visiting Assistant Professor to begin in the Fall semester of 2023.

Vassar is a highly selective, coeducational liberal arts college of about 2400 undergraduate students, located in the Hudson Valley, seventy-five miles north of New York City. Vassar stands upon the homelands of the Munsee Lenape. The College is located in Poughkeepsie, home to a culturally diverse community, and benefits from convenient commuter rail access to New York City. Vassar faculty are committed teachers/scholars who bring research and creative discovery to life for students in classrooms, labs, and studios and in individually mentored projects. They teach broadly in the curricula of their departments, advise students, and serve on college-wide and departmental committees. The College maintains a generous leave policy, provides strong support for research, and encourages multidisciplinary approaches to teaching.

Requirements:
A commitment to excellence in undergraduate teaching. A Ph.D. by the time of appointment is desired, but individuals nearing completion will also be considered. Strong candidates with a M.S., including those with industry experience, are also encouraged to apply.

Teaching responsibilities will include introductory, intermediate, and upper-level courses. The expected teaching load will be one lab course and one non-lab course per semester.

Vassar faculty members are committed teacher/scholars who bring research and creative discovery to life for students in classrooms, labs, and in individually mentored projects. Vassar College has a strong undergraduate program in Computer Science, with a history going back to 1963. The department is housed within Vassar’s Integrated Science Commons. The department maintains Linux laboratories for introductory and advanced instruction. Each faculty member is provided with a Linux workstation and a laptop. For more information see https://computerscience.vassar.edu/.

Candidates should submit a letter of application, C.V., graduate school transcript (unofficial copies accepted for initial application), a diversity statement highlighting contributions to and/or future plans for promoting diversity and inclusion through teaching, research and/or professional involvements, three letters of recommendation (at least one of which directly addresses teaching), and a statement of teaching experience and philosophy.

To apply, please visit: https://aptrkr.com/3863268

Review of applicant materials will begin on Friday, February 24, 2023, and will continue until the position has been filled. There is no guarantee that applications received after this date will be reviewed. Please direct any questions about the position to Marc Smith, Chair of the Computer Science Department (mlsmith@vassar.edu).
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.

All employees hired after August 2, 2021, are required to upload proof of vaccination and booster against COVID19, subject to approved medical or religious exemptions or disability accommodations.

Direct link to the application: https://wd1.myworkdaysite.com/recruiting/wellesley/wellesley-faculty/job/Wellesley-College/Instructor-in-Computer-Science-Laboratory_R0002258