COMPUTING RESEARCH NEWS

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

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CRN At-A-Glance

2021 Leadership Summit and Board Meeting Highlights

On February 22-23, CRA held its annual Computing Research Leadership Summit for the senior leadership of CRA member societies (Association for the Advancement of Artificial Intelligence, Association for Computing Machinery, CS-Can/Info-Can, IEEE Computer Society, Society for Industrial and Applied Mathematics, and USENIX) and winter board meeting.

see page 2 for full article

2021 CRA Distinguished Service and A. Nico Habermann Awardees Announced

Mary Jane Irwin – A. Nico Habermann Award Recipient

Emerita Evan Pugh University Professor, Pennsylvania State University

James Kurose - Distinguished Service Award Recipient

Distinguished University Professor, University of Massachusetts-Amherst

see page 4 for full article

Artificial Intelligence is Critical to National Security, Defense, U.S. Economy, and Worthy of Significant New Investment, Congressionally-chartered Commission Argues in Final Report

The National Security Commission on Artificial Intelligence, a congressionally-chartered committee charged with reviewing AI and related technologies and making recommendations to address U.S. national security and defense needs, recently released its final report, endorsing significant new investments in AI research, strategies for building the AI workforce, and guidance for using AI in warfare while upholding U.S. democratic values. The report is likely to inform policy activity around defense-related AI issues in Congress and at the Department of Defense over the next months and years.

see page 6 for full article

In This Issue

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CRA
Computing Research Association

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Leadership Summit Highlights

Several discussions provided useful information on current issues that are of collective importance to the organizations:

Dahlia Sokolov, Staff Director for the Research & Technology Subcommittee of the House Committee on Science, Space and Technology, shared congressional science priorities that focus on a broad innovation agenda, restoring scientific integrity at federal science agencies and increasing diversity and inclusion in the STEM workforce.

Computing Community Consortium Chair Liz Bradley gave an update on the CRA Quadrennial Papers initiative, through which CRA released a series of white papers that explored areas and issues around computing research with potential to address national priorities. The impact is starting to be seen on current legislation and proposals.

CRA Board Chair Ellen Zegura moderated discussion on what each of the societies are doing around the subject of the societal impact of computing and how the societies can work together on umbrella efforts that cut across organizations. Socially responsible computing is a major theme that emerged from the CRA strategic planning process.

Board Meeting Highlights

Two leadership summit sessions were held jointly with the CRA board meeting:

CRA Director of Government Affairs Peter Harsha discussed the current environment in D.C. for science policy, including the new administration prioritizing input from science in policy making, and issues CRA is following- computing and climate science, emerging technologies, socially responsible computing, and the health of the computing research ecosystem.

Margaret Martonosi, Assistant Director for NSF CISE, discussed COVID-19 effects and various actions NSF has taken to mitigate the impacts to the computing community, including supporting the CRA/CCC CIFellows program and greatly expanding REU programs. She also encouraged getting the word out about the CSGrad4US program and the CISE-MSI program, which supports research expansion for Minority-Serving Institutions (MSIs). The goal of the CISE-MSI program is to broaden participation by increasing the number of CISE-funded research projects from MSIs.

Strategic Planning Implementation

CRA is in the final phase of its strategic planning process, led by Greenway Strategy Group. The strategic planning process has three phases, Analysis, Strategy Development, and Action Planning. Priority outcomes and strategic themes were identified in the Strategy Development Phase, and CRA is currently working on creating action plans for the initiatives identified. The board also discussed possible changes to CRA board governance.

Industry Committee

At the July 2020 board meeting, the board approved the formation of the CRA Industry Committee (CRA-I). CRA-I's mission is to create a computing research ecosystem that focuses on opportunities with industry to leverage the potential synergies among industry, government, and academia for mutual benefit and improved societal outcomes. The committee is currently going through a process

to assess needs through an initial set of interviews with people representing a range of expertise across industry, academia, and government. The committee is also conducting a pilot survey and plans to collaborate with other CRA committees. The board approved funding for a new staff position to support CRA-I activities.

CRA FY22 Executive Committee

The CRA board of directors held elections for board officers to serve two-year terms beginning July 1, 2021. Nancy Amato was elected chair; Dan Grossman was elected vice-chair; Ran Libeskind-Hadas was re-elected secretary; and James Allan was re-elected treasurer.

CRA Board Chair Ellen Zegura will end her term at CRA on June 30, 2021. During the meeting, she was presented with a coverstitch machine (complete with a CRA logo attached) as a gift for her service as board chair. She enjoys quilting as a hobby, so we are confident it will be put to good use. CRA is thankful for her outstanding service as board chair for the last two years and board member since 2011. She has served on several committees throughout her time on the board and continues to guide CRA through its strategic planning process.

2021 CRA Distinguished Service and A. Nico Habermann Awardees Announced

The CRA board of directors is pleased to announce its selections for the 2021 CRA Awards.

Mary Jane Irwin

A. Nico Habermann Award Recipient

Emerita Evan Pugh University Professor, Pennsylvania State University

Mary Jane Irwin was selected to receive the 2021 A. Nico Habermann Award in recognition of her more than 30 years of diversity efforts, both in academia at Penn State University and in professional organizations, including the CRA Committee on the Status of Women in Computing Research (CRA-W), the Association for Computing Machinery (ACM) and the National Academy of Engineering (NAE). Her work in these organizations across three decades has increased the number of women and other under-represented groups in computing at universities (as faculty and students) and as fellows and award recipients.

She was a founding member of CRA-W, served as a steering committee member for more than 20 years, and spearheaded many of the activities and initiatives that we now think of as regular events. Irwin served on the ACM Council, as ACM Vice President, and her work on the ACM Fellow Selection Committee helped to double the number of women elected. She was also instrumental in pushing the NAE to diversify its ranks.

Irwin's commitment to diversity was actually inspired by meetings with A. Nico Habermann himself when she was on the Advisory Board for NSF CISE of which he was Assistant Director.

This award honors the late A. Nico Habermann, who headed NSF's Computer and Information Science and Engineering Directorate and was deeply committed to increasing the participation of women and underrepresented minorities in computing research. With this award, CRA recognizes individuals who have made outstanding contributions aimed at increasing the numbers and/or successes of underrepresented members in the computing research community.

James Kurose

Distinguished Service Award Recipient

Distinguished University Professor,
University of Massachusetts-Amherst

James Kurose was selected to receive the 2021 Distinguished Service Award in recognition of his exemplary service to the computing research community. Through a career spanning more that 35 years, he has distinguished himself as national leader in numerous impactful service roles in the computing research community. In every setting, Kurose has brought his tireless energy, enthusiasm, and extraordinary collegiality to build community, and strengthen our field.

His visionary leadership as Assistant Director for Computer and Information Science and Engineering at NSF in launching new programs and initiatives across a broad spectrum of computing disciplines has benefited nearly every computing researcher in the United States. Kurose's service as Assistant Director for Artificial Intelligence at the Office of Science and Technology Policy, co-Chair of the National Science and Technology Council NITRD National Artificial Intelligence Research and Development Strategic Plan, and for the international Organization for Economic Cooperation and Development as well as other groups has advanced and elevated our field. As part of his AI leadership on behalf of the community, he led an all-of-government effort to conceptualize and launch the National AI Research Institutes, a centerpiece of the American AI Initiative. The huge success of the National AI Institutes program is directly attributable to Kurose's insightful and persistent leadership.

The 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.

CRA Awards Chair:
Nancy Amato (University of Illinois at Urbana-Champaign)

CRA Awards Selection Committee:
Greg Morrisett (Cornell University)
Maria Gini (University of Minnesota)
Timothy Pinkston (University of Southern California)

Artificial Intelligence is Critical to National Security, Defense, U.S. Economy, and Worthy of Significant New Investment, Congressionally-chartered Commission Argues in Final Report

CRA
Computing Research Association

Nadya T. Bliss, Executive Director of ASU's Global Security Initiative and CCC Council member, contributed to this article.

The National Security Commission on Artificial Intelligence, a congressionally-chartered committee charged with reviewing AI and related technologies and making recommendations to address U.S. national security and defense needs, recently released its final report, endorsing significant new investments in AI research, strategies for building the AI workforce, and guidance for using AI in warfare while upholding U.S. democratic values. The report is likely to inform policy activity around defense-related AI issues in Congress and at the Department of Defense over the next months and years.

The commission, led by former Google CEO Eric Schmidt and vice chair former Deputy Secretary of Defense Robert Work, spent two years producing the report after being chartered in August 2018 as part of the FY 2019 National Defense Authorization Act.

The report is organized around two themes: "Defending America in the AI Era," with a focus on understanding current and future threats around AI; and "Winning the Technology Competition," with a focus on how to optimize the research ecosystem to ensure U.S. leadership in AI and related technologies.

The report starts with the premise that AI is already ubiquitous, that it is a quintessentially "dual-use" technology with clear military applications, and that it will transform all aspects of military affairs and intelligence for the U.S. and for its allies and adversaries. The commissioners make the case for a Department of Defense led effort to develop AI-enabled autonomous weapons systems in part because they assert that our adversaries are likely to deploy them and "defending against AI-capable adversaries without employing AI is an invitation to disaster." The commissioners believe DOD needs to have infrastructure to support AI in place by 2025, an admittedly ambitious goal, or risk losing its leadership position.

In considering the technology competition, the commissioners note that "AI will be leveraged to advance all dimensions of national power from healthcare to food production to environmental sustainability" and that the adoption of AI will "drive economies, shape societies, and determine which states exert influence and exercise power in the world." The clear threat in this calculation, the report notes, is China, which it describes as "an AI peer" and more technologically advanced in some applications. The U.S. innovation ecosystem has been remarkably productive, the commissioners argue, but we are at a disadvantage in AI because we lack the large state-led investments and strategies we see in China. University research, the private sector, and an innovation culture that is bottom-up will still be key drivers of AI progress in the U.S. But the report argues that even the largest U.S. tech firms can't compete with the resources provided by China and that the U.S. needs a better effort "meshing government and private sector efforts to win." The report calls on DOD to commit to spending at least 3.4 percent of its budget on Science and Technology (it's currently 2.3 percent), and "allocate at least $8 billion toward AI R&D annually."

Besides significant new investments in fundamental research and AI development, the report also calls for the creation of a new agency — a National Technology Foundation — to help meet the goal of moving emerging technologies like AI from

Artificial Intelligence *(continued)*

foundational research through the more applied "valley of death" to commercialization or deployment. This adds to the chorus of voices in DC, like Senate Majority Leader Chuck Schumer (D-NY) who introduced an act last Congress that would add $100 billion in funding over five years to the National Science Foundation to give it a new "technology development" mission and rename it the National Science and Technology Foundation; and the House Science, Space and Technology Committee, which is considering proposals to add a new Technology Directorate to NSF's Research and Related Activities account. The commitment to greater investment in these emerging areas of technology is welcome and laudable. But with it should come the caution that the details are incredibly important and that understanding the ways in which these new foci could skew our already extraordinarily productive research and innovation ecosystem is a necessity, particularly concerning open and unrestricted basic research.

CRA and its **Computing Community Consortium** – which has spent much of the last three years focused on AI research issues, both through the facilitation of a **community-led 20 year AI Research Roadmap**, and the production of a tranche of whitepapers on AI policy and research topics – engaged with the NSCAI on many occasions over the commissions 2+ years of work. The report, in general – and especially where it references research needs and articulates research as a priority for investment – clearly reflects that input, and we find it strong and commendable. The report rightly highlights the key importance of increased federal investments in fundamental research. In a focus on federal approaches to bringing emerging technologies closer to commercialization or deployment, we can't afford to lose the support for the fundamental research enabling those technologies (and many others we don't yet know about).

We also appreciate that the report does devote significant consideration to the importance of the DOD's continued respect for and protection of civil liberties, privacy, and democratic values – and the importance of American leadership in advancing those values through the technologies we deploy. While the report does appropriately bring focus on ethical use of AI in context of autonomous weapons systems, it is vital that the focus persists in all implementations of the recommendations. Emphasis on ethical AI needs to persist in lifelong learning and research, transition, adoption, or innovation initiatives throughout all of national security interests – from enterprise software systems to platforms and intelligence. Also, we note that thoughtful, tech-savvy people inside and outside DOD, the Administration, and the Congress must be involved in the implementation of recommendations and the thinking, planning, and operationalizing of these deployments.

From the perspective of the research community, throughout the report there may also be an over-estimation of AI robustness and a lack of appreciation that much of AI doesn't currently work or can't be held accountable; quantification of uncertainty is still a very challenging technical problem. This theme is consistent across domains of warfare and intelligence.

The report does a commendable job of noting the importance of recruitment of strong AI talent. We agree that ensuring broad computing literacy and a healthy pipeline of K-12 students with solid STEM educations is at least as important. As Mignon Clyburn, an NSCAI Commissioner noted in a recent public plenary, "educate the workforce and the peopleforce to uplift all of us." Additionally, an over-focus on "top AI talent" by funding agencies can be a detriment to national security – continued reliance on the same cohort of people can lead to blindspots. Ensuring a diversity of performers can help ensure a diversity of possible solutions to DOD problems. Broadening the definition of what "top AI talent" is and that it is not only limited to a few top tier research universities and could come from less traditional training (such as community college pathways or specialized military training) addresses this.

With the release of the report the commission has fulfilled its purpose and will expire October 1, 2021, unless Congress seeks to engage it in further work and extends its term. In the intervening months, we should expect Congress begin to act on some of the recommendations in the report through legislation (likely as part of the FY22 National Defense Authorization Act), and see the DOD begin to operationalize some of the guidance from the report. The report will serve as an excellent buttress for many of the policy goals CRA will be advocating for in the coming months and years – particularly in helping us argue the critical importance of the federal investment in fundamental research in computing. We'll keep you updated on progress on the **CRA Policy Blog**.

Tijana Milenkovic and Saad Biaz Receive the 2021 CRA-E Undergraduate Research Faculty Mentoring Award

CRA-E
Computing Research Association
Education

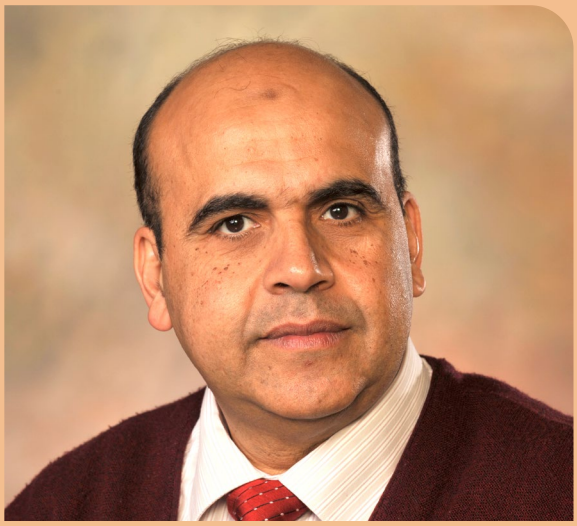
The Education Committee of the Computing Research Association (CRA-E) is proud to announce two recipients of the 2021 CRA-E Undergraduate Research Faculty Mentoring Award: Tijana Milenkovic from University of Notre Dame and Saad Biaz from Auburn University.

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

Tijana Milenkovic is a Frank M. Freimann Collegiate Associate Professor of Engineering at the Department of Computer Science and Engineering at the University of Notre Dame. Milenkovic has been a Notre Dame faculty since 2010, after earning her Ph.D. in computer science from the University of California Irvine in the same year. Her research focuses on challenging problems in the fields of network science, graph algorithms, computational biology, scientific wellness, and social networks. She has been a recipient of multiple prestigious awards including 2015 NSF CAREER and 2016 Air Force Office of Scientific Research Young Investigator Program (AFOSR YIP) awards.

Milenkovic has mentored 25 undergraduate students. Of these, ten (40%) have been women, and four (16%) have been African-American or Latinx. She is passionate about engaging undergraduate students in research. Milenkovic invests significant time and effort into each of her undergraduate students - meeting with them individually each week to discuss concepts, helping them to ask and answer challenging and cutting-edge research questions through exploring new ideas, developing software, designing and executing experiments, and ultimately writing papers and publishing their work in well-respected venues. She has provided exceptional mentorship to her students and has engaged in numerous broader outreach activities. Seven of her mentored students have continued to graduate school at e.g., Stanford and MIT. Several of them have then proceeded to faculty careers at highly ranked universities, including UIUC and UC Riverside. Beyond individual mentoring, Milenkovic is actively engaged in recruitment and retention of female, ethnic, and other underrepresented minority students at both undergraduate and graduate levels.

Faculty Mentoring Award *(continued)*



Saad Biaz is an Associate Professor at the Department of Computer Science and Software Engineering at Auburn University. He received his Ph.D. in computer science from Texas A&M University in 1999.

Biaz's research is in the area of wireless networking, distributed systems, mobile, pervasive computing and unmanned aerial vehicles. He has been a recipient of multiple awards related to his teaching, research and mentoring activities at Auburn university.

Biaz has mentored a number of undergraduate students over the years. As many as 27 students that he has mentored have gone to a graduate school including Yale, Berkeley and CMU. Biaz has been an attentive mentor to his students. He reads every word every student writes and provides detailed feedback to them. He also helps students learn how to make strategic decisions about the direction of their research, and when and how to decide if a particular approach is successful or whether they should redirect their efforts in another direction. The value of Biaz's interactions with the students can be seen in the large number of them who stay in touch with him. Overall, he has provided exceptional mentorship to his students and has engaged in numerous broader outreach activities.

The 2021 selection committee includes Monica Anderson (University of Alabama), Margaret Burnett (Oregon State), Maria Gini (University of Minnesota) and Denys Poshyvanyk (Chair, William & Mary).

CCC Executive Council Member Nadya Bliss on Applying AI in the Fight Against Modern Slavery

CCC
Computing Community Consortium
Catalyst

By CCC Staff

Contributions to this post were provided by CCC Vice Chair Daniel Lopresti.

AI for Good Global Summit hosted a webinar on AI to Prevent Modern Slavery, Human Trafficking and Forced and Child Labour and featured Computing Community Consortium (CCC) Executive Council Member Nadya Bliss (Executive Director of the Global Security Initiative at Arizona State University) as well as Alice Eckstein (Programme Manager, Modern Slavery Programme at United Nations University – Centre for Policy Research), Doreen Boyd (Professor of Earth Observation, Faculty of Social Sciences at University of Nottingham), James Goulding (Deputy Director N/LAB, Faculty of Social Sciences at University of Nottingham) and Anjali Mazumder (Thematic Lead on AI, Justice and Human Rights at The Alan Turing Institute).

Bliss talked in great detail about how to apply emerging AI technology to combat and mitigate the challenges of modern slavery and human trafficking and the four key areas that were identified during the March 2020 *CCC / Code 8.7 Workshop on Applying AI in the Fight Against Modern Slavery* (whose report will be released this spring).

The critical areas where AI can be applied in the context of human trafficking are:

- **Network Analysis –** An understanding of the spatial-temporal dynamics of Modern Slavery is crucial for increasing the effectiveness of policy and interventions. Network analysis must be aimed at identifying hidden populations targeted for exploitation, detecting signs of trafficking earlier when it begins to arise and recommending effective interventions to avoid simply pushing it off to another region after it is uncovered.
- **Perceptive Agents to Provide Survivor Support and Identify Tipping Points –** Interactive, intelligent agents that are aware, deeply perceptive, and fully conversant could take advantage of many opportunities to intervene and support the day-to-day choices that make a difference for vulnerable individuals walking the line between exploitation and freedom. Throughout the lifetime of their interactions, these agents can also accumulate valuable knowledge that would be useful to the experts who are working to identify and disrupt trafficking activities before they take hold.
- **Data Integration, Sharing and Pipelines –** As stakeholders increasingly rely on digital data to perform their various work functions, there is a lack of framework around data standards for the anti-trafficking movement. It is difficult to access research-quality data to perform important analyses to identify patterns and trends and evaluate the efficacy of interventions. The overarching challenge created by this reality is an inability to both ensure the security of highly sensitive data, as well as identify and aggregate meaningful sources of actionable intelligence across a wide range of sources to combat the problem, whether that be identifying perpetrator patterns for intervention, evaluating support services for survivors, enhancing law enforcement efforts, or just generally putting resources where they can have the most impact.

Nadya Bliss

- **Ethics and Privacy –** Ethics-infused AI techniques that integrate, process, and make sense of diverse and heterogeneous data arriving from a wide range of sources. These techniques should also keep in mind and develop privacy-preserving techniques for survivors and ensure that ethics is baked into the AI algorithms both at the modular and systems level.

As Bliss highlighted, as we move into the adoption of technology we need to recognize that AI is not a solution for everything and there are many components to also consider. It will be critical to bring in domain expertise and expertise from outside computer science along with AI researchers to solve this highly complex problem. Finally, the involvement of survivors in developing AI technologies is also of vital importance. Their lived experiences provide raw data which is critical, and their opinions about what constitutes effective research and interventions will prove invaluable.

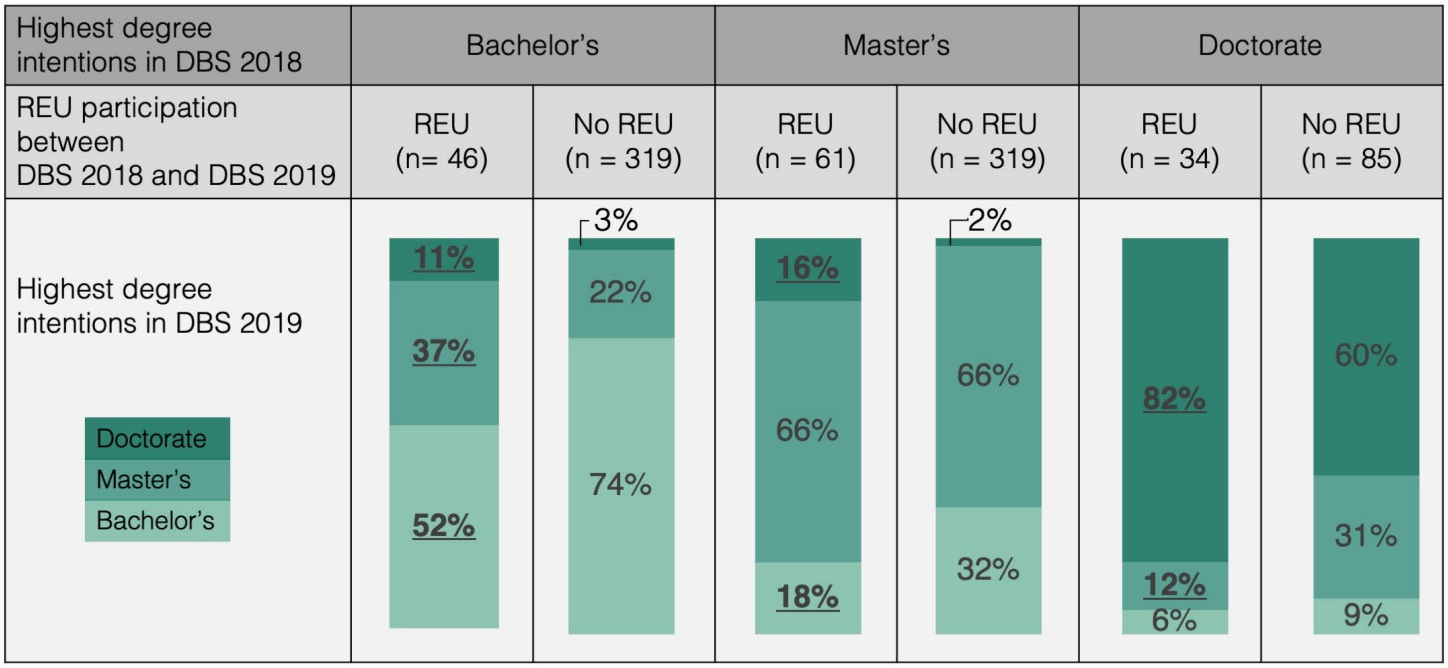
Please see the recording from the webinar here and keep an eye out for the upcoming *CCC / Code 8.7 Workshop on Applying AI in the Fight Against Modern Slavery* report.

REU Participation Encourages Students to Pursue Graduate Degrees

CERP
Computing Research Association
Evaluation

By Burçin Tamer, Director of CERP

Changes in undergraduate students' highest degree intentions by REU participation status



Source: Data Buddies Survey (DBS) 2018 and 2019, Center for Evaluating the Research Pipeline, Computing Research Association Dataset includes undergraduate students who responded to both DBS 2018 and DBS 2019 surveys (n = 1,594). REU: Students who had not done an REU at the time of DBS 2018 but reported having done an REU in DBS 2019 (n = 141). No REU: Students who have never done an REU (n = 723).

Undergraduate research experiences have been considered an effective method of encouraging undergraduate students to attend graduate school. This analysis uses longitudinal data from the Data Buddies Survey (DBS) cohorts, specifically undergraduate students who responded to the survey in 2018 and 2019 (n = 1,594), to examine whether participation in an REU alters students' intentions for the highest degree they plan to earn.

The graphic shows the highest degree plans of two groups of students: (1) Students who had not completed an REU at the time of DBS 2018 but reported having participated in an REU in DBS 2019 (n = 141), and (2) students who have never participated in an REU (n = 723). The results support the findings that REU participation encourages undergraduate students to go to graduate school.

The key observations from this analysis are two-fold:

- A larger percentage of the students who participated in an REU between the two surveys changed their highest intended degree to a higher-level degree (i.e., Bachelor's to Master's/Doctorate and Master's to Doctorate) than the students who never participated in an REU.
- More students who participated in an REU continued to be interested in getting a graduate degree than those who did not participate in an REU. Conversely, without REU participation, a significant portion of the students changed their highest intended degree from Doctorate to Master's and from Master's to Bachelor's.

Among students who participated in an REU 48% of those who wanted to get a Bachelor's degree prior to participating in an REU changed their plans for the highest degree they would like to attain to a Master's or Doctorate degree after participating in an REU. On the other hand, 74% of those who have never participated in an REU and wanted to get a Bachelor's degree in 2018 still continue to plan on a Bachelor's degree in 2019. Similarly, of the students who were interested in getting a Master's degree in 2018 and participated in an REU, 16% became interested in getting a Doctoral degree after the REU participation, while only 2% of those who did not participate in

REU Participation *(continued)*

an REU changed their plans in this way. Thirty two percent of the students who were intending on getting a Master's degree and did not participate in an REU reported a Bachelor's degree as their highest intended degree in 2019. Only 18% of the REU participants who were interested in a Master's degree in 2018 decided to change their highest intended degree to a Bachelor's degree. For the students who were interested in earning a Doctorate in 2018, REU participation helped maintain this intention in 82% of the cases while 40% of the students who did not participate in an REU change their intended highest degree to a Master's or Bachelor's degree.

Further examination of the effectiveness of various REU programs and how these programs impact the students' career pathways will help the efforts to strengthen the computing research workforce. It is especially important to continue to tease out how these experiences impact students who are currently underrepresented in computing. CERP will be focusing on these questions as part of an NSF award to study the impact of REU participation on career pathways and an NSF contract to evaluate the CISE REU Program.

Notes:

The survey data used in this graphic were collected during 2018 and 2019 survey cycles by CERP via the CRA Data Buddies Project.

Two proportion t-tests were used to test the statistically significance of differences between the students who participated in an REU and those who did not in terms of their highest degree intentions in 2019 given their highest degree intentions in 2018.

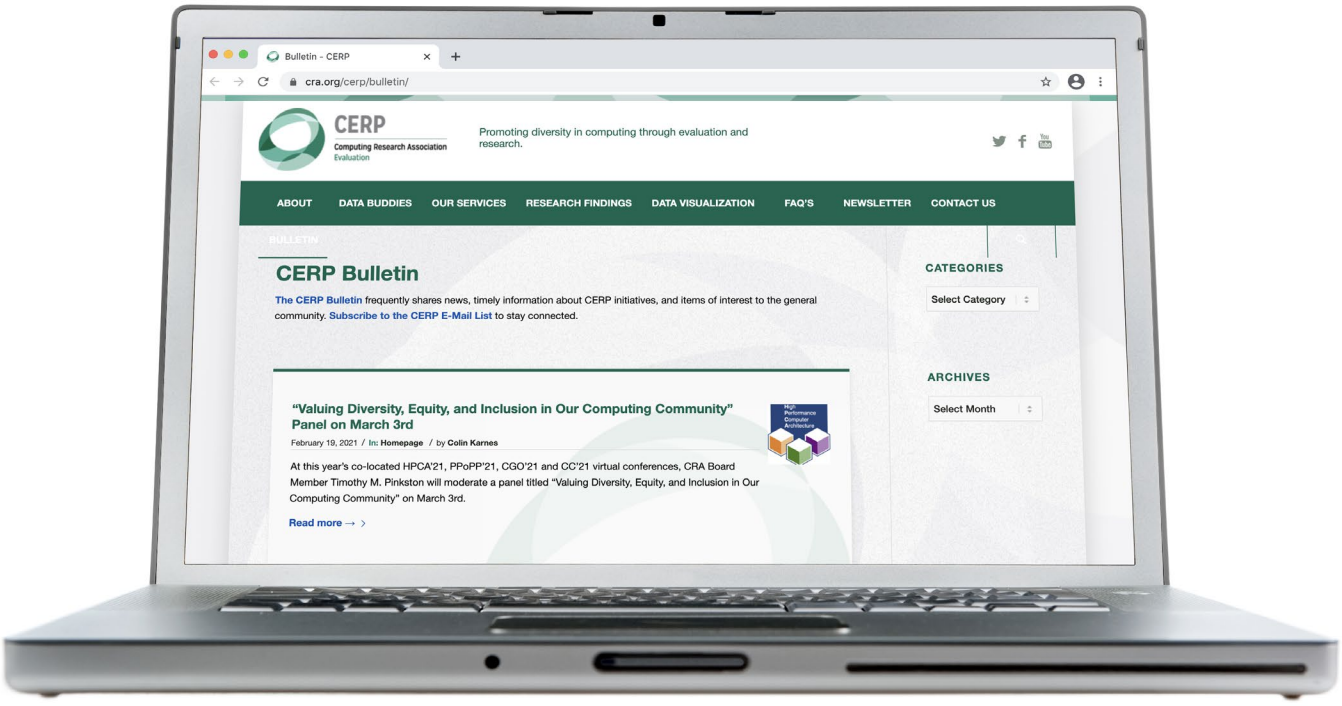
This analysis is brought to you by the CRA's Center for Evaluating the Research Pipeline (CERP). CERP provides social science research and comparative evaluation for the computing community. Subscribe to the CERP newsletter here.

This material is based upon work supported by the National Science Foundation under grant numbers (CNS-1246649, CNS 1840724, DUE-1431112, and DUE 1821136). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Introducing the CERP Bulletin

The CRA Center for Evaluating the Research Pipeline (CERP) is excited to launch a new blog called the CERP Bulletin to share news, research and evaluation findings, promote resources and community platforms, and provide helpful context to CERP's mission. The CERP Bulletin will include CERP research activity, infographics, evaluation reports, and interesting CERP-related articles.

We encourage you to stay updated on CERP through the Bulletin by signing up for our mailing list, which you can do here.



This post 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. Volunteer for Data Buddies by signing-up here.

Thank you, Data Buddies! (Fall 2020)

CERP
Computing Research Association
Evaluation

By CERP Staff

CRA and CERP wish to thank the institutions and departments that distributed the 2020 annual Data Buddies Survey! A total of **145 institutions** worked with CERP for the 2020 survey year, with 62 departments receiving "elite" status by obtaining a response rate of 20% or more.

The collective efforts of Data Buddies institutions enable CERP to provide resources to the computing community through research and evaluation focused on students' experiences in computing degree programs. For example, CERP publishes monthly infographics and conducts research using Data Buddies data.

Is your institution listed below? If not, help the computing community by becoming a Data Buddy today! Joining is free and easy, and your department will receive a report every year you participate in the project. Check out our sample report here!

Click here to learn more about Data Buddies and click here to sign up!

Special thanks to the **62 Elite Data Buddies**, who had at least a 20% response rate from their students!

Allegheny College
Alma College
*Arizona State University**
*Barnard College**
*Case Western Reserve University**
*Colgate University**
*Columbia University**
Creighton University
Davidson College
Drew University
*Duke University**
Eastern Washington University
Farmingdale State College
Gallaudet University
*George Mason University**
*Harvey Mudd College**
Illinois Wesleyan University
*Kean University**
Landmark College
*Lehigh University**
Middlebury College
*Montana State University**
*Mount Holyoke College**
*Northern Kentucky University**
Pacific Lutheran University
*Pomona College**
Southern Connecticut State University
Southwestern University
*Stony Brook University**
*Tufts University**
*University of Alabama at Birmingham**
*University of British Columbia**
*University of California-Santa Barbara**
*University of Cincinnati**
University of Hawaii-Hilo
*University of Houston**
*University of Illinois-Chicago (CS)**
*University of Illinois-Urbana Champaign**
*University of Maine**
University of Mount Union
*University of Nevada-Reno**
University of North Carolina-Charlotte (CS)
University of North Carolina-Charlotte (SIS)
*University of Notre Dame**
*University of Oregon**
University of Pittsburgh (DINS)
*University of Pittsburgh (CS)**
*University of Puget Sound**
*University of Rochester**
University of San Diego

* Indicates CRA member departments. In cases where a CRA member department is embedded in a larger college, the college was marked as a member.

Data Buddies *(continued)*

*University of South Florida-Main Campus**
*University of Texas-Austin (CS)**
University of Texas-San Antonio (CS)
*University of Washington**
*University of Wisconsin-Madison**
Valdosta State University
*Washington University-St Louis**
*Wayne State University**
Western Washington University
*Whitman College**
Winston Salem State University
Worcester State University

And a big thank you to the rest of the **actively engaged Data Buddies** who contributed to the project this year!

Augustana College
Baldwin Wallace University
Boston University (Bioinformatics)
*Boston University (CS)**
*Brown University**
California State University-Long Beach
Calvin University
*Carleton College**
*Carnegie Mellon University**
Clovis Community College
CodeCrew Code School
*Colorado State University**
Connecticut College
*Cornell University**
*DePaul University**
*Drexel University**
*Georgia Institute of Technology**
*Grinnell College**
*Harvard University**
*Johns Hopkins University**
*Kansas State University**
*Miami University-Oxford**
*New Jersey Institute of Technology**
*New Mexico State University-Main Campus**
*NYU Tandon School of Engineering**
North Carolina State University (CS)
*Northeastern University**
*Princeton University**
*Purdue University**
Radford University
*Rensselaer Polytechnic Institute**
*Rochester Institute of Technology**
Rutgers University-New Brunswick Campus
St. Mary's College of Maryland
Simmons University
Smith College
SUNY College-Plattsburgh
*Swarthmore College**
*Temple University**
*Texas A&M University**
Texas Southern University
*Texas State University**
*The Ohio State University**
*Union College**
*University of Alabama**
*University of California-Riverside**
*University of California-San Diego**
*University of Central Florida**
*University of Chicago**
*University of Colorado-Boulder**
*University of Delaware**
*University of Florida**
*University of Hawaii-Manoa**
University of Illinois-Chicago (ECE)
University of Illinois-Springfield
*University of Maryland-Baltimore County**
*University of Maryland-College Park (CS)**
*University of Maryland-College Park (IS)**

* Indicates CRA member departments. In cases where a CRA member department is embedded in a larger college, the college was marked as a member.

Data Buddies *(continued)*

*University of Massachusetts-Amherst**
*University of Michigan-Ann Arbor**
*University of Minnesota-Twin Cities**
University of Nebraska-Kearney
*University of Nebraska-Lincoln**
*University of New Mexico**
*University of North Carolina-Chapel Hill**
University of North Carolina-Charlotte (BiG)
University of Northern Iowa
*University of Pennsylvania**
University of Pittsburgh (ICDS)
University of San Francisco
*University of South Carolina-Columbia**
*University of Southern Mississippi**
University of Texas-Austin (ECE)
*University of Texas-Dallas**
*University of Texas-El Paso**
*University of Toronto**
*University of Utah**
*University of Virginia**
*Virginia Tech**
Washington and Lee University
Wellesley College
*Worcester Polytechnic Institute**
*Yale University**

* Indicates CRA member departments. In cases where a CRA member department is embedded in a larger college, the college was marked as a member.

This message 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.

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 the project 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.

Call for Nominations: CRA-WP Early Career Awards

CRA-WP
Computing Research Association
Widening Participation

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

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

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

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

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

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

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

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

Cloud Access for NSF CISE Research

An increasing number of NSF CISE solicitations, including the CISE Core Programs (for which SMALL Projects do not have a submission deadline), are eligible for cloud access via the CloudBank portal to the AWS, Azure, GCP, and IBM clouds.

These clouds offer enormous capacity and rich software stacks. Another plus: access through CloudBank is not subject to indirect cost.

For further information:

- An AWS Public Sector Blog post by Deep Medhi (NSF) and Sanjay Padhi (AWS): https://aws.amazon.com/blogs/publicsector/simplifying-access-cloud-resources-researchers-cloudbank/
- A webinar featuring Deep Medhi, Sanjay Padhi, and Mike Norman (UCSD; PI of NSF's CloudBank effort): https://www.youtube.com/watch?v=jtdhxFOrIcM&feature=youtu.be
- CloudBank: https://www.cloudbank.org/
- July 2018 workshop report "Enabling Computer and Information Science and Engineering Research and Education in the Cloud": https://www.researchgate.net/profile/Jeannette_Wing/publication/329911307_Enabling_Computer_and_Information_Science_and_Engineering_Research_and_Education_in_the_Cloud/links/5c224582a6fdccfc7068fc4c/Enabling-Computer-and-Information-Science-and-Engineering-Research-and-Education-in-the-Cloud.pdf

Applications Open for the 2021 CMD-IT Academic Careers Workshop

The 2021 Center for Minorities and People with Disabilities in Information Technology (CMD-IT) Academic Careers Workshop will be held virtually as a series of 2 – 3 hour sessions each day, June 13 -19. The goal of the annual workshop is to mentor assistant and associate level faculty, senior doctoral students, and postdocs about academic careers. The workshop targets participants from the following communities: African Americans/Blacks, Native Americans/Indigenous, Hispanics/Latinx, and People with Disabilities.

The workshop includes diverse senior faculty discussing the following topics:

- Tenure and promotion process
- Launching a research program
- Effective teaching strategies
- Promotion to full professor
- Effective strategies for proposal writing
- Affinity Research Group Model for effective research teams

The workshop also includes a panel of representatives from different funding agencies and mock proposal review sessions, whereby participants have an opportunity to review actual proposals. The mock review sessions provide significant insights into proposal writing.

The Academic Careers Workshop is organized by CMD-IT, in collaboration with AccessComputing and CAHSI.

Submit an application by the **March 31, 2021** deadline.

Professional Opportunities

Arizona State University

Assistant/Associate Professor of Applied Computing

Assistant/Associate Professor of Applied Computing, School of Mathematical and Natural Sciences, Arizona State University. Full-time tenure track Assistant/Associate Professor beginning August 2021. Seeking applicants to conduct research in Computer Science, to teach undergraduate courses, and to forge interdisciplinary collaborations in research and teaching.

For complete qualification/application information, see *http://apply.interfolio.com/83062*.

Application deadline is February 26, 2021. A background check is required for employment.

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

(See *https://www.asu.edu/aad/manuals/acd/acd401.html* and *https://www.asu.edu/titleIX/*.) ASU's Annual Security and Fire Safety Report is available online at *https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf*

Auburn University

Postdoctoral Researcher in Explainable AI

Artificial Intelligence (AI) has been transforming many industries including health care, transportation, and mobile computing. It is important for AI models to explain their decisions in health care, legal, and any applications where humans are in the loop.

Anh Nguyen's lab at Auburn University is looking for postdoctoral researchers to work on advancing the state-of-the-art Explainable AI frontiers, in the intersection of Machine Learning, Causal Reasoning, and Human-Computer Interaction.

Our lab members have previously won multiple Best Paper Awards (CVPR 15, GECCO 15, ICML Visualization workshop 16), Best Application Paper Honorable Mention (ACCV 20), and Best Research Video Awards (IJCAI and AAAI 16). Our work has also been repeatedly featured in MIT Technology Review, Nature, Scientific American, and deep learning lectures across various institutions.

Auburn University is one of the nation's premier, public, Carnegie R1 research, and land-grant institutions. The Computer Science and Software Engineering has 33 faculty and is ranked among the top 100 CS programs in the nation by US News. Auburn is a small, friendly college town, less than 2 hours from Atlanta and 4 hours from the southern beaches. Auburn has been previously ranked by CNNMoney, US News, and Forbes as one of the best small cities to live in America.

+ Preferred qualifications: A track record of research papers in any of the following areas: Computer Vision, NLP, ML, or XAI.

Application and more info:
http://anhnguyen.me/recruiting

Baidu USA

Postdoctoral Researchers in Cognitive Computing

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

Qualifications:

1. PhD in Computer Science, Statistics, Electrical Engineering, Mathematics, Operation Research, or related fields.
2. Excellent publication record in major CS conferences or premier Stat/EE/SIAM journals. Examples are CVPR, FOCS, KDD, ACL, WWW, ICML, SIGMOD, JMLR, PAMI, IEEE

Info. Theory, major statistics/mathematics journals, SIAM J. Computing, SIAM J. Optimization, etc.

3. Strong analytical and problem-solving skills.
4. Team player with good communication skills.

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

Barnard College

Associate Director for the Vagelos Computational Science Center

Barnard College seeks a full-time associate director for the Vagelos Computational Science Center (CSC). Barnard is a premier liberal arts undergraduate college for women in New York City affiliated with Columbia University. As part of the Milstein Center for Teaching and Learning, the CSC facilitates the understanding, exploration, and use of computational science and technology. Taking an intentionally broad approach to computing and its use, the CSC runs workshops for students, staff, and faculty to learn the power of, and develop practical skills in, computational and data science; supports courses and develops student leadership through an undergraduate Computing Fellows program, and develops community to engage students and enhance diversity in computation and the sciences.

Reporting to the Faculty Director of the CSC and working closely with faculty, staff, and students across the College, the Associate Director plays a key role in promoting computational science at Barnard and supporting faculty, staff, and students to engage with computing in meaningful ways across all disciplines. A particular focus is helping undergraduate students become confident and proficient with the use of computation to help them address scientific questions, analyze data to inform their work and engage in critical inquiry in the context of a liberal arts education. Candidates should have a graduate degree in computer science or a related field, or in education or library science, and experience with coding and computing applications.

More information is available at *https://csc.barnard.edu/associate-director-vagelos-computational-science-center-csc*. Applications should be submitted electronically at *https://careers.barnard.edu/postings/5297* and should include a cover letter describing the candidate's interest in and qualifications for the position, a curriculum vitae, and contact information for three references.

Bennington College

Faculty Position in Computer Science

Bennington College invites applications for a full-time faculty position in computer science, beginning Fall 2021. The successful candidate will work with colleagues to implement an innovative and multidisciplinary approach to Computer Science, one that will build on our program's success of attracting students from diverse backgrounds and with a range of academic interests. Applicants with academic, industrial, and/or artistic backgrounds in computer science and from all sub-specializations are encouraged to apply. The ability to teach and develop new courses in multiple subfields of computer science that can be integrated into a broad liberal arts environment is essential.

An advanced degree in computer science or a closely related field is desirable, but not required. If desired, the option of a part-time position exists for an exceptional candidate. Bennington College is committed to increasing excellence through diversity and welcomes applications from women and members of underrepresented groups.

To apply or learn more about the position, please go to *https://bennington.recruiterbox.com/jobs/fk0u26e*.

Review of applications begins March 1st.

City University of Hong Kong

Professor/Associate Professor/ Assistant Professor

Worldwide Search for Talent

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

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

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

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

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

Clemson University

Assistant or Associate Professor

The School of Computing at Clemson University invites applications from a culturally diverse pool of candidates for multiple positions at the rank of Assistant or Associate professor. We are particularly interested in candidates with research areas in cybersecurity and artificial intelligence (deep learning, computer vision, natural language processing).

More information may be found *http://apply.interfolio.com/84209*

Colgate University

Visiting Assistant Professor of Computer Science

The Department of Computer Science at Colgate University invites applications for three Visiting Assistant Professor positions beginning fall semester 2021. Appointments will be for one year with the possibility for renewal. We encourage candidates in all areas of specialization to apply. Completion of a Ph.D. is expected prior to or shortly after the date of hire.

In each semester, visiting professors can expect to teach two-course sections plus one or two labs (three labs over two semesters). To support the candidate's scholarship, Colgate offers funding opportunities to attend professional meetings, for professional development, and for students to participate in the candidate's research projects.

A cover letter, curriculum vitae, teaching statement, research statement, and the names of three references must be submitted through *https://academicjobsonline.org/ajo/jobs/18101*. The cover letter should indicate courses for which the candidate has teaching interests (see *http://www.cs.colgate.edu* for a list; additional elective topics may also be proposed). Colgate strives to be a community supportive of diverse perspectives and identities. Candidates must describe in their cover letter or teaching statement how their teaching supports the university's commitment to diversity and inclusion.

Review of applications will begin March 1, 2021, and will continue until available positions are filled. Applicants with dual-career considerations can find postings of other employment opportunities at Colgate and at other institutions of higher education in upstate New York at *https://www.hercjobs.org/regions/higher-ed-careers-upstate-new-york*

It is the policy of Colgate University not to discriminate against any employee or applicant for employment on the basis of their race, color, creed, religion, age, sex, pregnancy, national origin, marital status, disability, protected veteran status, sexual orientation, gender identity or expression, genetic information, being or having been victims of domestic violence or stalking, familial status, or any other categories covered by law. Colgate University is an Equal Opportunity/Affirmative Action employer. Candidates from historically underrepresented groups, women, persons with disabilities, and protected veterans are encouraged to apply.

Colgate University is a highly selective liberal arts college of 2900 undergraduate students situated in a picturesque village in central New York. The department offers excellent teaching and research facilities and the university is committed to promoting excellence in both teaching and scholarship. For more information about the department, please visit our website at *http://www.cs.colgate.edu*.

Please direct questions to the department chair, Joel Sommers, at *jsommers@colgate.edu*.

Georgia State University

Assistant Professor, Tenure Track Faculty Position in Data Science and Analytics

The Institute for Insight at Robinson College of Business (RCB) of Georgia State University (GSU) invites applications for one tenure track faculty in data science and analytics at the assistant professor level, effective Fall 2021 or earlier. We seek applicants with research interests in the use of natural language processing, machine learning, deep learning, image analytics, and related fields and a keen interest in large scale application of A.I. tools to address business problems.

Applicants should have expertise in supporting the RCB's strategic goal of becoming one of the leading business schools at the forefront of transforming business education and research through data science and A.I. Successful candidates will contribute toward the college's multi-year and multi-disciplinary strategy for developing a significant data science and analytics research program with strong industry links, including, but not limited to, work with the Institute's labs and applied research projects.

Minimum requirements are an earned Ph.D. in Computer Science, Statistics, Economics, or related fields from an accredited university or international equivalent, and a robust research program in data science and analytics. Successful candidates will have a strong trajectory of future publications in widely regarded premier journals in business and related disciplines. Ideal candidates will also have teaching capabilities to teach courses in the College's M.S. in Data Science and Analytics, the college's Ph.D. program, and in other related programs. Candidates will have the opportunities to interact with different companies in the metro Atlanta area.

The successful candidate's tenure home will be in the Institute for Insight. Established in 2015, the Institute pursues new interdisciplinary research areas investigating how the computing and digital capabilities of the future can transform business and society. By bringing its core computer science, statistics, and engineering faculty researchers together with management, legal, and social science scholars, the Institute seeks to be a trusted resource assisting strategic partners creatively designing implementable strategies that solve real-world challenges and drive positive business valuation. Opportunities for conducting research are excellent with similarly interested faculty colleagues across the college and university in areas such as law, economics, finance, marketing, risk management, and health care, along with researchers across the college and university associated with our innovation labs in FinTech and Blockchain, Legal Analytics, Social Media Intelligence, Supply Chain, and Healthcare Analytics. Faculty, research scientists, and other affiliated members in these labs work closely with business partners on applied innovation research.

More information about the Institute is available at *http://insight.gsu.edu* and about the M.S. in data science and analytics program at *http://robinson.gsu.edu/msa/*.

The full job ad and an application are available at *http://academicjobsonline.org/* (free registration required).

The Hong Kong University of Science and Technology

Job Title:Founding Faculty

Artificial Intelligence (AI) Thrust, Information Hub, HKUST (GZ)

Job ID: 5213

The Hong Kong University of Science and Technology (HKUST) invites applications for founding faculty positions at all levels at Professor, Associate Professor and Assistant Professor rank in Artificial Intelligence (AI) Thrust for its new campus in Guangzhou (GZ). Candidates should have a demonstrated ability to pursue high-impact research in AI and its applications. We specifically look for candidates interested in applied AI research who are able to collaborate closely with domain experts in the target application areas to develop transformative technologies using AI. The initial focus areas include, but are not limited to, AI in design, AI in finance, AI in manufacturing, AI in medicine, AI in security and privacy, and AI in smart living. We welcome senior candidates to apply, especially those who can help with the strategic development of the AI trust area for the new Guangzhou campus.

Candidates for all ranks must have a PhD degree in related disciplines.

About HKUST Guangzhou Campus [*https://gz.ust.hk/*]

HKUST(GZ) offers a unique educational environment with four transdisciplinary hubs and 16 thrust areas. HKUST(GZ) offers superb research facilities, attracting top international faculty and students to conduct curiosity-driven and goal-oriented research to address the world's pressing scientific and technological challenges. English is the medium of instruction and administration at HKUST (GZ).

HKUST(GZ) is situated in Nansha District, Guangzhou, which is right in the center of the Greater Bay Area, one of the most vibrant and dynamic regions in the world, neighboring Shenzhen, Hong Kong, and Macao. It is about 30 minutes away from Hong Kong by high-speed train. The new campus is under construction and is planned to open in 2022. Successful candidates may start working on the Clear Water Bay campus in Hong Kong before the new campus is completed.

About the Information Hub

The HKUST(GZ) Information Hub focuses on addressing global challenges arising from human interactions with information and technology in an era of digital transformation. The Hub is mainly comprised of four thrust areas: Artificial Intelligence, Data Science and Analytics, Computational Media and Arts, and Internet of Things. In each of these areas, we are committed to providing a world-class education and conducting cutting-edge research with practical applications, with the purpose of not only advancing regional development but also making a global impact.

Remuneration and Conditions of Service

Salary is highly competitive of international standard and will be commensurate with qualifications and experience. Generous research funds, ample laboratory space and excellent research equipment and support will be provided.

All posts are tenure-track Mainland China appointments to be offered by the HKUST Mainland entity in accordance with the local employment laws and regulations. Appointment to Professor rank and some Associate Professor rank will be made on substantive basis while initial appointment to other tenure-track faculty ranks will be made on a fixed-term contract of up to three years commencing the earliest in July/August 2021.

Application Procedure

Please submit the application via the HKUST/HKUST(GZ) Recruitment System (*https://facrecruit.hkust.edu.hk/*). You should first sign up to create your personal account. For more information, please visit the recruitment website (*https://gz-faculty-recruitment.hkust.edu.hk/*).

Review of applications will continue until all positions are filled. We thank applicants for their interest. Please be advised that only shortlisted candidates will be notified of the result of the application.

For questions regarding the recruitment system or general inquiries, please reach us at *facultyhire@ust.hk*. For Hub/ Thrust specific questions, please address to *gzrecruitinf@ust.hk* with subject title of "Application to AI".

(Information provided by applicants will be used for recruitment and other employment-related purposes. All application materials including publication samples and scholarly/creative works will be disposed of after the completion of the recruitment exercise.)

Jio Institute

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

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

About Jio Institute

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

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

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

About The Artificial Intelligence & Data Science Program:

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

The AI & DS Program will be fully integrated with the Institute's Research Centre, and will sponsor post-doctoral research fellows to work with faculty and students.

WHAT ARE WE LOOKING FOR?

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

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

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

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

How to Apply?

Interested candidates should provide the following documents:

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

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

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

KTH Royal Institute of Technology

Associate Professor, Computer Science, Specialisation in Foundations of Data Science

KTH Royal Institute of Technology, School of Electrical Engineering and Computer Science has a vacancy for one Associate Professor with specialisation in Foundations of Data Science. The position will be permanent and full time, to start as soon as possible.

KTH is one of Europe's leading technical and engineering universities. We are Sweden's largest technical research and learning institution and home to students, researchers and faculty from around the world. Teaching is in English and Swedish.

Applications must be made online through the KTH job portal. Full position details, including how to apply online can be found at: *https://www.kth.se/en/om/work-at-kth/lediga-jobb/what:job/jobID:366029/where:4/*

The deadline for online applications is 15.Apr.2021 11:59 PM CET.

Job reference number: VL-2020-0141

Lawrence Berkeley National Laboratory

Group Lead - Machine Learning and Analytics

The Machine Learning and Analytics Group (previously known as the Data Analytics and Visualization Group) in the Computing Research Division (CRD) at Lawrence Berkeley National Laboratory (LBNL) is looking for a Group Leader. The group's mission is to conceive, design, and implement new methods in high-performance machine learning, data and image analytics, computational geometry and topology, and visualization technologies.

For full details, or to apply, please visit *http://50.73.55.13/counter.php?id=193161*

McMaster University

Department of Computing and Software

Tenure-Track Faculty Positions

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

Position Description

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

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

The successful applicant must have or be very near completion of a PhD in Computer Science, Software Engineering, or a related discipline, by the time of the appointment. The applicant must also demonstrate a record of excellence in teaching and research and a willingness and ability to contribute to the department's collegial and collaborative intellectual community as well as university-wide inclusive excellence goals and priorities. Research excellence will be reflected in successful mentoring of graduate students and particularly doctoral students, extramural grant acquisition and publication in high quality peer-reviewed journals and conferences. The successful applicant will teach both undergraduate and graduate level courses. They will also be expected to foster existing collaborations and initiate news ones within their department and with other departments and faculties.

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

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

Commitment to Inclusive Excellence

The diversity of our workforce is at the core of our innovation and creativity and strengths our research and teaching excellence. In keeping with its Statement

on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity.

The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from First Nations, Métis and Inuit peoples, members of racialized communities ("visible minorities"), persons with disabilities, women, and persons who identify as 2SLGBTQ+.

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

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

How to Apply:

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

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

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

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

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

Yes, I am a citizen or permanent resident of Canada

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

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

Michigan Technological University

Faculty Positions

Michigan Technological University's College of Computing, located in Houghton, Michigan, invites applications for two (2) Assistant, Associate, or Full Professor positions. Areas of particular interest include cybersecurity, artificial intelligence/machine learning, and data science; exceptional candidates in other areas of computing will also be considered. Successful candidates will demonstrate a passion for their research, an enthusiasm for undergraduate and graduate education, and a strong commitment to cultivating diverse and inclusive learning environments.

Michigan Tech is building a culturally diverse faculty committed to teaching and working in a multicultural environment and strongly encourages applications from all individuals. We are an ADVANCE Institution having thrice received National Science Foundation funds in support of efforts to increase diversity, inclusion, and the participation and advancement of women and underrepresented individuals in STEM.

Michigan Tech actively supports dual-career partners to retain a quality workforce. Candidates are invited to bring a guest to an on-campus interview; additional details on dual-career exploration in our Partner Engagement Program can be found at *https://www.mtu.edu/provost/programs/partner-engagement/*.

An applicant must have earned a PhD degree in a computing discipline or a closely related area. Michigan Tech places a strong emphasis on balancing cutting-edge research with effective teaching, outreach, and service. Candidates for these positions are expected to demonstrate the potential for excellence in independent research, excellence in teaching, and the ability to contribute service to their department and profession.

Michigan Tech is an EOE that provides equal opportunity for all, including protected veterans and individuals with disabilities. For more information on the College of Computing and this position, please visit *http://www.employment.mtu.edu/cw/en-us/job/492473*.

Applications received by March 1, 2021, will receive full consideration.

Milwaukee School of Engineering

Computer Science and Software Engineering Faculty - All Ranks

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

To view the full advertisement, receive application instructions, and apply, please visit *http://www.milwaukeejobs.com/apply/add/43466542*.

It is the policy of MSOE to provide equal employment opportunity to all individuals regardless of their race, ethnicity, color, creed, religion, sex, age, national origin, physical or mental disability, military and veteran status, sexual orientation, gender identity, genetic characteristics, marital status or any other characteristic protected by local, state or federal law. This policy applies to all jobs at the University and to all the terms, benefits, and conditions of employment/enrollment.

NEC Laboratories America, Inc.

Researcher/Associate Researcher - Mobile Communications & Networking

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

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

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

On **wireless sensing**, the group is looking for a highly motivated researcher with expertise in the broad area of digital signal processing, embedded wireless

systems, with a particular emphasis on the following skill sets:

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

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

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

Equal Opportunity Employer

NEC Laboratories America, Inc.

Researcher - Data Science

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

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

Our group is looking for researchers to work in the areas of artificial intelligence, machine learning or data mining. The ideal candidates must have expertise in one of the above areas, and can develop algorithms to analyze massive data and build innovative applications. S/he must have a PhD in CS/CE with a strong publication record in at least one of the following areas:

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

NEC Labs is located in Princeton, NJ, home to Princeton University and one of New Jersey's most beautiful and idyllic towns. The area offers many exciting cultural, entertainment and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. For more information about NEC Labs, please access *http://www.nec-labs.com/*, and submit your CV and research statement through our career center at: *https://www.appone.com/MainInfoReq.asp?R_ID=3108918*.

Equal Opportunity Employer

NEC Laboratories America, Inc.

Researcher - Networking/System Security

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

The Data Science and System Security Department aims to build novel big data solutions and service platforms that simplify the management of complex systems, from networks to cyber-physical systems, and to develop new information technology that supports innovative applications, from big data analytics to the Internet of Things. Our research is both experimental and theoretical, covering many domains in data science and artificial intelligence, such as: time series mining, graph mining, text mining, anomaly detection, signal processing, and streaming processing. The goal of our research is to understand the dynamics of big data from complex systems and build innovative solutions to help end-users manage these systems. We built several analytic engines and system solutions to process and analyze big data and support various applications in detection, prediction and optimization. Our research lead to both award-winning NEC products and publications in top conferences.

Our group is looking for researchers to work at the intersection of machine learning and networking and/or system security. The ideal candidate must have a PhD in CS/CE and a strong publication record in at least one of the following areas:

- Data mining and machine learning
- 5G networking and IoT
- Network management, measurements, and analysis
- Network and/or system security

NEC Labs is located in Princeton, NJ, home to Princeton University and one of New Jersey's most beautiful and idyllic towns. The area offers many exciting cultural, entertainment, and outdoor activities. The office is minutes away from Princeton University and an hour from New York, Philadelphia, and the Atlantic Ocean. For more information about NEC Labs, please access *http://www.nec-labs.com/*, and submit your CV and research statement through our career center at *https://www.appone.com/MainInfoReq.asp?R_ID=3123535*.

Equal Opportunity Employer

Northeastern University

Director of Computing Programs San Francisco-Silicon Valley

Position Summary:

The Khoury College of Computer Sciences at Northeastern University invites applications for the position of Director of Computing Programs at our San Francisco and Silicon Valley campuses. The college currently offers the Master of Computer Science and will launch the Master of Data Science in the 2020-2021 academic year. Both of these programs can be pursued by students with undergraduate degrees outside of computing through Align, Northeastern's most innovative and mission-driven program (*https://www.khoury.northeastern.edu/information-for-overview/prospective-align-pillar/*). Through its commitment to Algin, Khoury College aims to close America's tech diversity gap. All programs offered in the Bay Area are grounded in principles of innovation and experiential learning, preparing graduates for successful careers in the dynamic tech environment of Silicon Valley. The ideal candidate will be able to combine strong leadership skills, demonstrated administrative experience, an entrepreneurial spirit, and commitment to increasing diversity in computer science to create a strategic vision for the growth of programs in the region.

The Director will work closely with the Dean of Khoury College, the Executive Directory of Khoury College in the Global Network, Directors of other regional campuses, faculty, and a support staff team that will assist with student recruitment, employer relations, and resource development. The director will interact with Bay Area campus staff and administration as well as the faculty and staff of other colleges in support of regional programs and goals. The director will act as a primary ambassador for Khoury College in the region, interfacing with industry, philanthropic supporters, and strategic partners to build the program's brand and reach. The Director will teach two courses per year and will have the opportunity to recruit full- and

part-time faculty at the San Francisco and Silicon Valley campuses.

Qualifications:

Candidates will be considered from all areas in Computer and Information Science. A PhD in Computer Science, Information Science or a related field is required by the appointment start date and a strong background for teaching excellence in computer science preferred. For more information on Khoury College of Computer Sciences and all of its academic programs visit *https://www.khoury.northeastern.edu/programs/computer-science-ms/*.

Additional information and instructions for submitting application materials may be found at the following web site: *https://careers.hrm.northeastern.edu/en-us/job/505622/director-of-computing-programs-san-franciscosilicon-valley-open-rank*

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

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

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

Oakland University

Special Instructor of Computer Science and Information Technology

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

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

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

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

Special Instructions: Review of applications will begin on March 1, 2021 and continue until this position is filled. Expected start date is August 15, 2021. Applicants should submit a letter of intent, a statement of teaching, curriculum vitae, transcripts (unofficial) a statement of diversity, and contact information for three references. The diversity statement will describe their interest or efforts in furthering diversity and inclusion e.g. through mentoring, pedagogy, activism, faculty recruitment/retention or research on issues related to diversity and social inequality. The teaching statement should include a list of undergraduate and

graduate courses that the applicant will be willing to teach as well as outlines of two courses that the applicant would like to introduce. The candidate should upload their application at *http://jobs.oakland.edu/postings/20105*.

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

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

Old Dominion University

Cybersecurity Lecturer (2 Positions, F0527A, F0081A)

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

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

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

Old Dominion University

Cybersecurity Research Assistant Professors (Multiple Position)

Old Dominion University invites applications for multiple research associate and research assistant professor positions in the broad area of cybersecurity with anticipated start date around August 8, 2021.

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

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

Review of applications will begin on **March 1, 2021** and will continue until the positions are filled. Applications should be submitted electronically to *https://jobs.odu.edu/postings/13008*.

Polytechnic Institute and State University of Virginia

Collegiate Assistant Professor

The Department of Computer Science at Virginia Tech seeks applicants for multiple collegiate assistant professor positions. Outstanding candidates at higher ranks may also be considered. Collegiate faculty members have a primary commitment to our instructional mission, including graduate and undergraduate teaching, curricular and program development, and the design and integration of innovative and inclusive pedagogy. Successful candidates should contribute to enhancing curricula and promoting teaching excellence. The collegiate faculty rank is a non-tenure-track position that offers a promotion path with increasingly long-term contracts. Collegiate faculty are full members of the faculty and are encouraged to participate in research and scholarship, mentor graduate students, participate in department and professional service, etc. Candidates will have the opportunity to collaborate with a wide range of research groups in the department, including a nationally-recognized group in CS education research. Candidates with demonstrated knowledge of CS education research topics such as education-related software systems, student data analytics, CS education for non-majors or at the K-12 level, cybersecurity education, data science education, distance and on-line education, experiential learning, or diversity in CS are encouraged to apply.

The department currently has 57 faculty members, including 47 tenured or tenure-track faculty, 15 early career awardees, and numerous recipients of faculty awards from IBM, Intel, AMD, Microsoft, Google, Facebook, and others. CS faculty members direct several interdisciplinary research

centers, including the Center for Human-Computer Interaction and the Discovery Analytics Center. The department is home to over 1,200 undergraduate majors and over 300 graduate students, with university commitments to grow all programs significantly.

Virginia Tech is a public land-grant university, committed to teaching and learning, research, and outreach to the Commonwealth of Virginia, the nation, and the world. Building on its motto of Ut Prosim (That I May Serve), Virginia Tech is dedicated to InclusiveVT—serving in the spirit of community, diversity, and excellence. We seek candidates from all backgrounds and lived experiences to join our community in preparing leaders for the world. The College of Engineering undergraduate program ranks 13th and the graduate program ranks 31st among all U.S. engineering schools (USN&WR). The Mission of the College of Engineering is to educate and inspire our students to be critical thinkers, innovators and leaders. Our core values are inclusiveness, excellence, integrity, perseverance and stewardship.

Virginia Tech's main campus is located in Blacksburg, VA, in an area consistently ranked among the country's best places to live. In addition, our program in the Washington, D.C., area offers unique proximity to government and industry partners and is also expanding rapidly, with Virginia Tech's exciting new Innovation Campus in Alexandria, VA, slated to open in 2024.

Candidates must have a Ph.D. in computer science or a related field at the time of appointment. The positions require occasional travel to professional meetings. Selected candidates must pass a criminal background check prior to employment. Applications must be submitted online to jobs.vt.edu for position 19904. Candidates should submit a cover letter, curriculum vitae, a teaching statement, a statement on contributions to advancing diversity, equity, and inclusion, and contact information for at least three references. Application review will begin on 1/10/21 and continue until the positions are filled. Inquiries should be directed to Dr. Stephen Edwards, search committee chair, at *edwards@cs.vt.edu*.

The department fully embraces Virginia Tech's commitment to increase faculty, staff, and student diversity; to ensure a welcoming, affirming, safe, and accessible campus climate; to advance our research, teaching, and service mission through inclusive excellence; and to promote sustainable transformation through institutionalized structures. If you are a person with a disability and need an accommodation, please contact the Human Resources Service Center at *hrservicecenter@vt.edu* or at 540-231-9331.

Required Qualifications

Experience in higher education instructional activities with promise for being a leader in the instructional mission. An earned Ph.D. in computer science or a closely related field. Ability to contribute to the department's teaching mission, at both graduate and undergraduate levels. Record of research accomplishments, e.g., publications.

Preferred Qualifications

A record of scholarly accomplishments in the area of pedagogy. Demonstrated interest in collaborative research with existing departmental research strengths. Contributions to improving the diversity of the discipline, and experience in working effectively with a diverse student population.

Pomona College

2-Year Visiting Assistant Professor

Pomona College seeks applications for two, two-year visiting Assistant Professor of Computer Science position beginning 7/1/21. The teaching load is five semester-long courses a year. Faculty teach across all levels of the curriculum. Candidates must have a Ph.D. in CS or related fields or be at the later stage of a Ph.D.

Submit a cover letter; CV; graduate transcripts; teaching statement and at least one letter of reference which evaluates the candidate's teaching via email at *cssearch@pomona.edu*.

Employees must show proof of eligibility to work in the U.S.

Ramapo College Of New Jersey

Assistant Professor of Computer Science

RCNJ is New Jersey's Public Liberal Arts College, dedicated to providing students a strong foundation for a lifetime of achievement. The College is committed to academic excellence

through interdisciplinary and experiential learning, and international and intercultural understanding. Ramapo College emphasizes teaching and individual attention to all students. We promote diversity, inclusiveness, sustainability, student engagement, and community involvement.

JOB SUMMARY:

Ramapo College of New Jersey (RCNJ) seeks applicants for multiple tenure track positions in Computer Science, beginning September 2021. Successful candidates will teach a variety of computer science courses at both undergraduate and graduate levels. Candidates in all areas of computer science are encouraged to apply. Ramapo College has a rapidly growing Computer Science undergraduate major and new undergraduate and graduate degrees in Data Science; we seek applicants with a desire to teach a broad variety of Computer Science courses, help grow and design our curriculum, and promote collaborative research opportunities with students and faculty across the College.

PhD in Computer Science, or a closely related field completed by September 2021.

Application Instructions

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

Additional Information:

RCNJ is an Equal Opportunity Employer. Additional details are found *here*.

Rhodes College

Assistant Professor of Computer Science

https://jobs.rhodes.edu/postings/3527

San José State University

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

Starting Date: August 2021

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

Application Procedure:

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

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

Seattle University

Chair of Department of Computer Science and Amazon Endowed Chair

Position Description

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

Qualifications

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

Application Instructions

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

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

Southern Illinois University Edwardsville

Assistant Professor of Computer Science

https://www.siue.edu/employment/engineering/FY21-054.shtml

Stevens Institute of Technology

Tenure-Track Faculty Positions in Computer Science

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

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

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

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

The Department of Computer Science is committed to increasing the diversity of the campus community. Stevens is an Equal Opportunity Employer that is building a diverse faculty, staff and student body and strongly encourages applications from female and minority candidates as well as veterans and individuals with disabilities. Stevens is an NSF ADVANCE institution committed to equitable practices and policies.

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

Syracuse University

Assistant Professor, Tenure-Track Faculty Position in Computer Science

Job Description

Syracuse University's Department of Electrical Engineering and Computer Science (***http://eecs.syr.edu***) in the College of Engineering and Computer Science (***https://eng-cs.syr.edu***) invites applicants for a tenure-track assistant professor. The successful applicant will join a department of 42 full-time faculty who are committed to innovative teaching, inclusive excellence, and interdisciplinary collaboration.

The specific position targets the areas of real-time and embedded systems and low-power electronics for implantable and wearable devices, intelligent sensor systems, human-machine interface, and Cyber-physical Systems. This recruitment is part of an ambitious Invest Syracuse Cluster Hire Initiative in the broad area of Aging, Health, and Neuroscience. As an integral part of this investment, Syracuse University will recruit multiple candidates for this cluster. Faculty hired into these positions will build on our existing strengths in the focus area and will participate in an organized research cluster that spans multiple departments across Syracuse University.

Syracuse University is ranked in the highest research activity classification

(R1) with the vision to be a preeminent and inclusive student-focused research university. The College of Engineering and Computer Science is one of 12 schools and colleges and is recognized for leading research in Intelligent Systems, Cybersecurity, and Computer Systems. The department of Electrical Engineering and Computer Science offers four undergraduate degrees, four MS degrees, and two Ph.D. degrees.

Qualifications

Candidates must have earned a doctoral degree in Computer Engineering, Electrical Engineering, or a related discipline.

The successful applicant will bring expertise to design real-time embedded sensor-based monitoring systems and low-powered wearable sensors that can operate longer without intervention. Candidates should be prepared to teach effectively at the undergraduate and graduate levels. We strongly encourage applications from candidates with a demonstrated commitment to diversity, inclusion, and excellence in both teaching and research.

How to Apply

For full consideration, candidates must complete an online application and electronically attach a cover letter, curriculum vitae, research statement, teaching statement, and contact information of three professional references through *http://www.sujobopps.com*, job# 075520. To be competitive, we strongly encourage candidates to apply early. The review of applications will continue until the position is filled. For additional information, please contact the search committee via email at *eecssearch@syr.edu*.

Syracuse University is an equal opportunity/a rmative action employer with a strong commitment to equality of opportunity and a diverse workforce. Women, military veterans, individuals with disabilities, and members of other traditionally underrepresented groups are encouraged to apply.

Temple University

Tenure-Track Faculty Position (Asst/Assoc/Full)

Computer and Information Sciences

The Department of Computer and Information Sciences (CIS) at Temple University invites applications for tenure-track faculty whose expertise complements and expands existing departmental strengths in data science, computer systems, theory, and interdisciplinary research. We will consider candidates in all areas of computer science and at all ranks. We are particularly interested in candidates whose research focuses on creating computer systems that exhibit the ability to learn, adapt, understand context, and work seamlessly with and for humans. This would include candidates with expertise in data science, artificial intelligence, machine learning, natural language processing, cybersecurity, human-computer interaction, and applications. Successful candidates are expected to hold a doctoral degree, have an outstanding research track record commensurate with their rank, and a demonstrated commitment to excellence in undergraduate and graduate education. The CIS Department offers highly competitive salaries and start-up packages, low teaching load, and institutional support for a world class research program.

Temple University is a Carnegie R1 (very high research activity) institution that serves more than 35,000 students and is ranked #46 among top public universities by the U.S. News & World Report. Located in the heart of Philadelphia (the 5th largest city in the United States, known for its arts, culture, history and affordable living), Temple University is in close proximity to many outstanding research centers and industry partners in information technology, healthcare, biotechnology, and finance.

Applications should be submitted electronically at: *https://academicjobsonline.org/ajo/jobs/17907*

Submitted materials should include a curriculum vitae, a research statement with a description of research accomplishments, a teaching statement, and three letters of recommendation (names and contact information of referees are sufficient for senior-level candidates).

Review of applications will begin on February 15, 2021 and will continue

until the position is filled. For more information, send an email to *cisfacultysearch@temple.edu*, with "TT Position" as the subject.

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

Towson University

Clinical Assistant Professor or Clinical Associate Professor in Systems Administration

This position requires teaching undergraduate and graduate courses, mentoring students and participating in department activities. The ideal candidate may be involved in the administration of the community college focused IT major at Towson University in Northeastern Maryland.

The Department of Computer and Information Sciences is looking to expand its offerings in the area of systems administration and engineering within the information technology (IT) major. The position will be focused on teaching courses in systems administration, scripting, and systems architecture. The primary responsibility for this position will be teaching and service in the IT program, though scholarship will be encouraged as well.

Full ad and application info *HERE*

Trinity College

Visiting Assistant Professor of Computer Science

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

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

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

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

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

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

UMBC University of Maryland Baltimore County

Professor of the Practice

The Department of Information Systems (IS) at UMBC welcomes applications for a Lecturer/Professor of the Practice position with the Department's Online Master of Science program in Information Systems with a start date of fall semester 2021.

POSITION DESCRIPTION

Our new colleague's primary responsibility will be teaching in the Department's Online Master of Science program in Information Systems. Our colleague will also participate in additional activities supporting the program including advising, student retention, curriculum development, and course design activities. The Online Master of Science in Information Systems is a top-ranked online program whose curriculum reflects the evolving needs of the technology industry. Core courses explore Management Information Systems,

Networks, Databases, and Structured Systems Analysis and Design. Elective courses allow our students to dig deeper into various technology topics. For details on our course offerings, please visit our web site at: *http://onlinems.umbc.edu/*.

The IS Department is multi-disciplinary, placing a strong emphasis on the theory and application of information systems. The Online IS MS program offers three tracks: Data Science, Cybersecurity, and User Experience Design. All applicants should have a PhD Degree in a relevant area, especially one or more track areas. Preference will be given to candidates with the following:

- Experience with online teaching
- Student advising experience
- Instructional design training or experience

Applicants to the Professor of the Practice rank are expected to have industrial or governmental experience that allows them to offer unique perspectives to students.

INCLUSIVE AND INNOVATIVE COMMUNITY

Our UMBC community redefines excellence in higher education through an inclusive culture that connects innovative teaching and learning, research across disciplines, and civic engagement. We advance knowledge, economic prosperity, and social justice by welcoming and inspiring inquisitive minds from all backgrounds (http://facultydiversity.umbc.edu). According to the 2019 US News and World Report Best Colleges report, UMBC is placed at 9th in the Most Innovative Schools category and 8th in Best Undergraduate Teaching category. To continue to support this goal of excellence in education, the Faculty Development Center leads the Nation in supporting and guiding UMBC faculty in their educational mission with faculty learning communities, regular workshops and pedagogical demonstrations. The 2018 Chronicle of Higher Education also named UMBC as a Great College to Work For, for the ninth year in a row.

Diversity and inclusion are core values of UMBC and we believe that the educational environment is enhanced when diverse groups of people with diverse ideas come together to learn. We especially welcome applications from individuals who will contribute to our department's and university's commitment to diversity and inclusion in higher education. UMBC is a national model for diversity and inclusive excellence in STEM. We have been recognized nationally for our Meyerhoff Scholar programs (*http://meyerhoff.umbc.edu/*), the Center for Women in Technology (*http://cwit.umbc.edu*), and PROMISE: Maryland's AGEP, LSAMP Bridge to the Doctorate programs and our ADVANCE Program. Reflecting these values, the IS department has a diverse student body, with 23% of our students identifying as under-represented minorities and half of our full-time faculty identify as female. To learn more about faculty diversity experiences at UMBC visit *https://facultydiversity.umbc.edu*. At UMBC, we also promote career-life balance, to learn more about our family-friendly policies, please visit *https://careerlifebalance.umbc.edu/resources/*.

APPLICATION REQUIREMENTS

Electronic submission of applications is required at *https://apply.interfolio.com/82636*.

All applications must be submitted as PDF files. Individual applications will not be reviewed until all five of the following materials are received:

1. cover letter,
2. Curriculum Vitae,
3. one-page statement of teaching interests, teaching philosophy and approach, especially for the online education,
4. one-page commitment to diversity and inclusion statement in higher education describing past and planned actions,
5. names and contact information of at least three references.

For inquiries, please send an email to *onlineisms_search_2020@umbc.edu*. An informational webinar will be also held in mid to late January.

If you are interested in the webinar, please register at *https://forms.gle/CmugCMfPdnPRoT386*.

Review of applications will begin February 1, 2021, and will continue until the position is filled, subject to the availability of funds.

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

As an institution that receives federal financial assistance, UMBC adheres to Title IX and does not discriminate on the

basis of sex. For more information about Title IX and contact information for Title IX Coordinator click here.

University of Alabama in Huntsville

Clinical Assistant Professor in Information Systems – Cybersecurity

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

Position begins in Fall 2021.

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

University of Arizona

Department Head, Computer Science

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

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

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

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

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

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

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

University of Colorado Boulder

Instructor in Data Science – Computer Science

The office of the Dean of the Graduate School at the University of Colorado Boulder seeks applicants for the position of Instructor in Data Science - Computer Science, to begin Fall 2021. This Instructor will teach in the new MS in Data Science Program with an emphasis in data structures and algorithms and data mining. The Instructor will report to the Faculty Director of the Program in Data Science, and will be affiliated with the Department of Computer Science where instructors are an integral part of the department's full-time teaching faculty team, and play a fundamental role in the department's educational mission.

The initial appointment is for a term of three years, with contract renewal contingent upon satisfactory performance. The successful applicant will be fluent in Python and prepared to teach data science courses including data structures and data structures and algorithms, data mining, and either machine learning or big data architecture. The ideal candidate will assist in the development of data science degree programs. Additional responsibilities may include coordinating multi-section courses,

supervising teaching assistants, serving on committees, supporting growth in the university's data science degree offerings, and advising data science students.

The University of Colorado Boulder is committed to building a culturally diverse community of faculty, staff, and students dedicated to contributing to an inclusive campus environment. We are an Equal Opportunity employer, including veterans and individuals with disabilities. We can offer an academic year salary range of $65,000 - $82,500. Review of applications will begin as they are received, and will continue until the position is filled. Applications received by March 1, 2021 will receive full consideration. Note: Application materials will not be accepted via email. For consideration, applications must be submitted through *https://www.colorado.edu/jobs/*

University of Florida

Assistant Professor (AI Graph Technology)

The Herbert Wertheim College of Engineering (HWCOE) at the University of Florida (UF) invites applications for a full-time, nine-month tenure track faculty position at the rank of Assistant Professor in the Department of Computer & Information Sciences & Engineering (CISE), or the Department of Electrical and Computer Engineering, or the Engineering School for Sustainable Infrastructure and the Environment (ESSIE). Candidates are sought whose research area is the development of Artificial Intelligence (AI) methods for graphs and graph-based data and who are interested in collaborative, interdisciplinary research with the Center for Coastal Solutions (CCS), housed within the HWCOE. The CCS (*https://ccs.eng.ufl.edu/*) is advancing monitoring platforms and Earth Systems models to better predict the risks and impacts of coastal hazards, including but not limited to flooding, sea-level rise, harmful algae blooms, invasive species, and pathogen outbreaks. Research on graphs for representing abstract manifolds and geo-spatiotemporal sensor webs of heterogeneous agents, such as citizen scientists, autonomous sea-borne sensors, socio-economic and public health databases, and satellite imagery would complement the mission of the CCS. Applicants working in this space would find a wealth of opportunity in this position.

The University of Florida is the flagship campus of the State of Florida university system and is ranked as the #6 best public US university according to US News and World Report. UF recently announced a $70 million artificial intelligence partnership with NVIDIA to create an AI-centric data center that houses the world's fastest AI supercomputer in higher education. Of particular relevance to this new faculty position, the HWCOE is in the process of creating the programmatic backbone to UF's efforts to change the future of education and workforce development through university-wide AI training and experiential learning efforts. The Department of CISE in the HWCOE is a vibrant, multidisciplinary highly collaborative environment, consistently ranked among the top departments for both graduate and undergraduate programs. It offers BA, BS, MS, and PhD degrees in Computer Science and Computer Engineering, with an enrollment of 2,440 undergraduate students and 668 graduate students of which 148 are PhD students. The CISE department currently has 55 faculty. Collectively, the list of achievements and awards received by the faculty include one Fulbright Scholar; 19 NSF CAREER Award winners; eight IEEE Fellows; three ACM Fellows; three AAAS Fellows; one IEEE Computer Society Taylor L. Booth Education Award; one IEEE Computer Society W. Wallace-McDowell Award; and one ACM Karl Karlstrom Outstanding Educator Award. The Department's external research expenditures were over $8.8 million last year, an increase of over 60% over the past five years. Research is central to the success of the program, and new faculty will be expected to initiate and sustain strong sponsored research and graduate training programs.

The University of Florida Center for Coastal Solutions seeks to leverage innovative technologies, applied Artificial Intelligence, workforce training programs, and multi-sector collaboration to enable local communities, the state, and the nation to better track, forecast, mitigate and prevent coastal hazards, improving the quality of life and economic health of coastal residents (see more at: *http://ccs.eng.ufl.edu*). In pursuit of this mission, the CCS, established in October 2020

and led by faculty in the HWCOE, is integrating expertise, resources, and workforce training capabilities drawn from across the University of Florida, ranging from the Warrington School of Business to Levin College of Law, College of Design, Construction and Planning, UF|IFAS, and the College of Medicine. The Center is applying an open-source model to developing solutions to the most pressing environmental, economic and public health hazards facing coastal communities, forming extensive and rich partnerships with the public and private sector to drive innovation.

Qualifications

The successful candidate is expected to have a doctoral degree in computer and information science and engineering or a related field at the time of hiring. In addition, the candidate should have a record of successful proposal writing, mentoring, and classroom teaching of undergraduate and graduate students.

Application Instructions

The search committee will begin reviewing applications immediately, with the first full committee screening occurring on January 28th, 2021, and will continue to receive applications until the position is filled. All applications must be submitted through Interfolio at: *apply.interfolio.com/83276*. (Please see Job Requisition #69395). Complete applications must include the following files in PDF format: (1) cover letter (summary, introduction related to hiring emphasis areas, and any synergies with UF ECE, CISE, or ESSIE departments, and the Center for Coastal Solutions); (2) a curriculum vitae; (3) a statement describing the applicant's experience in enhancing diversity, equity and inclusion through research, teaching, or service, and vision for promoting a more inclusive experience at the University of Florida; (4) a research program vision statement detailing short- and long-term goals; (5) a teaching statement describing the applicant's teaching experience and vision for developing a teaching program at the University of Florida; (6) up to three refereed journal or conference articles (co-) authored by the applicant; and (7) the names, addresses, phone numbers, and email addresses of no less than three and up to five references. To be competitive, candidates for this faculty position should submit a cover letter, research statement, and education vision statement that complement the overall mission of the Center for Coastal Solutions. The cover letter should be addressed to: Dr. Christine Angelini, Search Committee Chair, Director of the Center for Coastal Solutions.

Final candidate will be required to provide official transcript to the hiring department upon hire. A transcript will not be considered "official" if a designation of "Issued to Student" is visible. Degrees earned from an education institution outside of the United States are required to be evaluated by a professional credentialing service provider approved by National Association of Credential Evaluation Services (NACES), which can be found at *http://www.naces.org/*.

The University of Florida is an equal opportunity institution dedicated to building a broadly diverse and inclusive faculty and staff.

The University of Florida is An Equal Employment Opportunity Institution. If an accommodation due to a disability is needed to apply for this position, please call 352/392-2477 or the Florida Relay System at 800/955-8771 (TDD). Hiring is contingent upon eligibility to work in the US. Searches are conducted in accordance with Florida's Sunshine Law.

The anticipated start for the position is Fall 2021 with some flexibility for a later start based on individual needs.

If an accommodation due to a disability is needed to apply for this position, please call 352-392-2477 or the Florida Relay System at 800-955-8771 (TDD). Hiring is contingent upon eligibility to work in the US. Background searches are conducted in accordance with Florida's Sunshine Law.

The University of Florida is committed to nondiscrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information, and veteran status in all aspects of employment including recruitment, hiring, promotions, transfers, discipline, terminations, wage and salary administration, benefits, and training.

Equal Employment Opportunity Statement

The University of Florida is committed to nondiscrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information, and veteran status in all aspects of employment including recruitment, hiring, promotions, transfers, discipline, terminations, wage and salary administration, benefits, and training.

University of Florida

Assistant Professor in Computational Language Science:

Apply here:
https://apply.interfolio.com/83028

University of Illinois at Chicago

Open Rank - Multiple Tenure Track Faculty in Computer Science

Located in the heart of Chicago, the UIC CS department is conducting multiple faculty searches this year for multiple tenure track faculty at all ranks. The first is searching broadly within the area of human-computer interaction, including research on a broad range of topics (e.g. mobile, wearable or embedded technologies, ubiquitous computing, robotic interactions, or social and collaborative computing); in a broad range of applications (e.g. healthcare, education, workplace technologies, home or consumer technologies); and broad range of methodologies (e.g. mixed or multi-method, ethnographic, user or case study, time-series analysis, quasi or experimental design). The second is searching for applicants in the area of computational biology to work with UIC's Center for Bioinformatics and Quantitative Biology. The third is searching for applicants from all areas of computer science.

Applications must be submitted at *https://jobs.uic.edu/* 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 Research Gate are recommended.

Applicants may contact the faculty search committee *search@cs.uic.edu* for more information.

For fullest consideration, applications must be submitted by February 11, 2021. Applications will be accepted until the positions are filled.

The Department of Computer Science at UIC, which will be hiring between 15 and 30 new faculty in the next 5 years, has 40 tenure-system faculty, 4 research faculty with strong and broad research agendas, and 16 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 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.

UIC is a major public research university (Carnegie R1) with about 2,800 faculty and over 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:
Teach, Conduct Research, Mentor Students

Qualifications:
PhD or equivalent degree in computer science is a closely related field

The University of Illinois at Chicago is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply.

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*

University of Illinois at Chicago

Bridge to Faculty Postdoctoral

The UIC CS Department is recruiting a Postdoctoral Fellow from all areas of computer science to take part in UIC's Bridge to the Faculty program. Bridge to the Faculty is an opportunity designed to recruit scholars with the goal of supporting their scholarly development through a fully funded postdoctoral program of up to two years. Successful postdoctoral fellows will have the opportunity to transition to faculty following their fellowship experience.

The Bridge to the Faculty Postdoctoral Fellows program seeks to advance diversity on the permanent faculty level by encouraging the recruitment, development, retention, and promotion of outstanding scholars from different backgrounds, with an emphasis on attracting individuals from groups who have been historically underrepresented in STEM. The goal of this fellowship is to support the transition of outstanding candidates from postdoctoral assignments to research active, tenure-track faculty members by providing them with mentorship and the opportunity to build community and engage with other Fellows through cohort-based mentorship programming coordinated through the Office of Diversity. UIC strongly encourages applications from individuals who have demonstrated a background and/or record of scholarship that will best support UIC's diverse student body. A successful candidate will demonstrate an understanding of barriers affecting populations traditionally underrepresented in the field of computer science and groups that are traditionally marginalized in the United States. More information on Bridge to the Faculty is available here: *https://diversity.uic.edu/engagement/bridge-to-the-faculty/*.

UIC seeks applicants whose creative work/research, teaching and service will contribute to diversity and equal opportunity in higher education. The program is particularly interested in scholars with the potential to bring to their academic careers the critical perspective that comes from their non-traditional educational background or understanding of the experiences of groups historically underrepresented in computer science higher education. The position is available in the Fall 2021 semester and the initial term of employment will be for up to 24 months.

Located in the heart of one of the most vibrant cities in the United States, UIC is a comprehensive urban public research (R1) university with a diverse student body and a strong tradition of support for difference and equality. Part of the University of Illinois land grant higher education system, UIC is among the nation's top five most diverse campuses; it is designated as a Minority Serving Institution (MSI), an Asian American Native American Pacific Islander Serving Institution (AANAPISI), and a Hispanic Serving Institution (HSI). UIC's undergraduate population is currently 26% Hispanic, 23% Asian American and Native American Pacific Islander, 8% Black, 36% White, 9% International. 53% of UIC's students are low income, and 36% are Pell eligible.

This is a full-time position and includes a competitive salary and benefits package.

Applications must include:

- Cover letter addressing interest in the Fellowship, CS and UIC. Applicants are requested to include in their cover letter information about how they will further our goal of building a culturally diverse educational environment.
- CV
- Names and contact information for writers of three letters of recommendation; one must be from the dissertation committee chair or faculty advisor.
- A writing sample (dissertation proposal or publication).

For fullest consideration application materials must be submitted via *https://jobs.uic.edu/* by February 5th, and applications will continue to be accepted until the position has been filled.

The University of Illinois at Chicago is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply.

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*

University of Illinois

Research Scientist, Molecule Maker Lab Institute

The Molecule Maker Lab Institute (MMLI) is an NSF Artificial Intelligence Institute for Molecular Discovery, Synthetic Strategy, and Manufacturing at the University of Illinois at Urbana-Champaign, which will become a global epicenter for molecule making innovation. The MMLI is seeking a Research Scientist who will collaborate with researchers across the Institute to apply artificial intelligence to synthesis planning, catalyst design and optimization, manufacturing, development of functional materials, and broadening access to molecule making.

Major Duties and Responsibilities: (1) Conduct database research; (2) Conduct text mining research; (3) Communicate and interact with software engineers for the development of the databases; (4) Coordinate various research projects in the institute; (5) Perform other related duties as required and assigned.

Position Requirements and Qualifications: Ph.D. in computer science or related fields of study. Research experience in database and AI/ML. Preferred knowledge in text mining, information extraction, and/or knowledge discovery.

To learn more and apply, please visit: *https://jobs.illinois.edu/academic-job-board/job-details?jobID=141041&job=research-scientist-mmli-carl-r-woese-institute-for-genomic-biology-141041*.

UNLV

Computer and Information Sciences
Full-time Assistant Professor

The University of Nevada, Las Vegas invites applications for Computer and Information Sciences, Full-time Assistant Professor, Howard R. Hughes College of Engineering [R0123332].

The Department of Computer Science is seeking a full-time, tenure-track Assistant Professor in Machine Learning, Systems, or Software Engineering commencing Fall 2021.

Applicants must have a Ph.D. degree in Computer Science from an accredited college or university. The candidates must have completed all the degree requirements before the date of appointment. The successful candidate should have a good understanding of theory as well as practice.

For more information, please visit **https://www.unlv.edu/jobs**

For assistance with the application process, please contact UNLV Human Resources at (702) 895-3504 or **unlvjobs@unlv.edu**

EEO/AA/Vet/Disability Employer

University of Maryland, College Park

Tenure-Track Faculty Position in Machine Learning

Electrical and Computer Engineering

Learn more about the opening and how to apply at: *http://www.ece.umd.edu/faculty-hiring2021/*.

For best consideration, applications should be submitted by 15 February 2021.

Professional Opportunities

University of North Texas

Chair, Department of Computer Science and Engineering

Position Summary

The UNT Department of Computer Science and Engineering (CSE) (computerscience.engineering.unt.edu)is seeking nominations or applications for the chairperson position.

Minimum Qualifications

Nominees or applicants must have: an earned doctorate relevant to a program in computer science and engineering and achievements commensurate with a tenured appointment at the rank of Professor in Computer Science and Engineering department. In addition, the candidate is expected to have an excellent record of scholarship and external funding, prior academic experience in a US institution, and a commitment to diversity and inclusiveness as well as shared governance while maintaining a good working relationship with the College Dean and upper administration. The candidate is expected to have strong interpersonal skills, the ability to lead and manage, and to work with faculty and administration.

Applicants are sought at the Professor level with salary, benefits, and a teaching load typical for a major research university.

Special Instructions to Applicants

Nominations and enquiries can be sent to Dr. Seifollah Nasrazadani, Chair of the Search Committee, at *Seifollah.Nasrazadani@unt.edu.* Applications should be submitted directly through *jobs.untsystem.edu* and must include a detailed CV; a summary of research, teaching, and management experience; a statement on vision for a high-ranking CSE Department; and a list of five references. Please upload a Diversity Statement describing how you will contribute to diversity, equity, and inclusion in the UNT Computer Science and Engineering department.

Applications should be preferably submitted by March 15, 2021. However, screening of nominations and applications will continue until the search is closed.

Assistant Professor, Computer Engineering (NTT)

The School of Engineering and Computer Science at the University of Pacific invites applications for a full-time, non-tenure track position in the Computer Engineering Department for the 2021-2022 academic year (with potential for renewal).

Candidates must have an earned and M.S. or Ph.D. in Computer Engineering or related field. Applicants must have knowledge of computer systems and their applications. Preferred qualifications include specialization in an area of computer systems, such as computer architecture, storage, networking, digital design, or microcontrollers and embedded systems.

For more details and to apply, visit **https://apptrkr.com/2113720**

University of Utah

Associate Professor

The University of Utah's College of Humanities and the Entertainment Arts and Engineering (EAE) program is seeking to hire a tenure-track faculty member at the rank of assistant or associate professor, beginning Fall 2021. We are seeking an exceptional scholar in the broad area of humanist perspectives on games that include but are not limited to games and narrative, procedural, digital, and visual rhetoric and game studies. The successful candidate will hold a shared appointment between the Entertainment Arts and Engineering Program in the College of Engineering and an appropriate department in the College of Humanities. The faculty member's tenure will lie within the College of Humanities, and their scholarship, teaching and service commitments will be shared equally between the two appointment-sharing units.

Candidates should have the ability to serve as a leading contributor to the advancement of games as a discipline both on campus and in the larger academic community. Applicants should have a commitment to a community where games scholarship embraces a diverse range of scholarly artifacts. They should be passionate about bringing their research to bear in their teaching and be dedicated to translating scholarship into an instructional practice designed to better our students' abilities to culturally contextualize, find meaning in and create games. A doctoral or other terminal degrees in a discipline related to humanist perspectives on games is required.

The University of Utah's College of Humanities includes the departments of English, Communication, Philosophy, History, Linguistics, Writing and Rhetoric Studies and World Languages and Cultures The University of Utah's EAE Program is a world leader in games education and scholarship, with top-ranked programs at both the undergraduate and graduate levels. Founded in 2007, EAE is a teaching program centered on the discipline of games, with its programs consistently ranked in the top five worldwide by Princeton Review since 2013. The EAE faculty is a collegial community of games scholars composed of artists, computer scientists, designers, games studies scholars, and social scientists who all work collaboratively in teaching, scholarship and service. This diversity of background in our faculty is one of the core elements of our students' experiences. EAE and the departments in the College of Humanities are committed to removing barriers that have been traditionally encountered by individuals from underrepresented groups; strive to recruit faculty who will further enhance our diversity; and make every attempt to support their academic, professional, and personal success while they are here. The University of Utah recognizes that a diverse faculty benefits and enriches the educational experiences of the entire campus and greater community. This institution offers benefits to same-sex and to different-sex domestic partners. This institution offers benefits to spouses.

Located in metropolitan Salt Lake City in the foothills of the Wasatch Mountains, the University of Utah is the state's flagship research institution and emphasizes exceptional scholarship, quality teaching, and professional service. The university serves over 32,000 students from across the U.S. and the world with over 72 major subjects at the undergraduate level and more than 90 major fields of study at the graduate level, including law and medicine. Salt Lake City is a vibrant, major metropolitan area with a diverse, multicultural population and numerous cultural and outdoor activities. Additionally, a vibrant local game development community offers opportunities for interesting collaborations. Further information about EAE can be found at ***https://games.utah.edu/about-eae/***. Additional information about the College of Humanities is available at ***https://humanities.utah.edu***.

Interested candidates should provide a cover letter, curriculum vitae, teaching statement, a statement of contributions to diversity, and names and contact information for at least three references to be considered. Applications must be submitted on-line. Review of applications will begin immediately and will continue until the position is filled. Both EAE and the College of Humanities are deeply committed to building a more diverse and representative faculty, and strongly encourage applications from groups underrepresented in games scholarship and in higher education.

View the complete position details here: ***https://utah.peopleadmin.com/postings/110417***

University of Virginia

Department Chair for Computer Science

The Department of Computer Science within the School of Engineering and Applied Science at the University of Virginia invites applications for the role of the department chair to begin in August 2021. The department has a history of bringing visionary and accomplished scholars from the broader Computer Science community to expand the impact of our research and educational programs. We seek a world-class scholar and leader, whose background allows them to be appointed as a full professor, to lead the next phase of our growth.

The department has experienced significant growth in recent years. In the past 6 years, it has hired 33 faculty

members, bringing the total to 57. In that time, the number of undergraduate majors has more than doubled and the number of graduate students has more than tripled. This period has seen remarkable growth in the size and reach of its research program, e.g., research expenditures are up by more than 260%, and it participates in 3 externally funded center-scale activities - leading two of those. Moreover, the department has led the creation of two major interdisciplinary initiatives within the university - the LinkLab, which is engaged with Cyber-Physical Systems research (*https://engineering.virginia.edu/link-lab*) and the Biocomplexity Institute (*https://biocomplexity.virginia.edu/*) – and jointly administers the Computer Engineering program with the Department of Electrical and Computer Engineering.

The department is committed to creating and benefiting from an environment where a diverse group of capable, inspired individuals interact and collaborate to learn and advance knowledge without barriers. This commitment can be seen in the department's 20-year focus on enhancing diversity and inclusion in its educational programs. These efforts have significantly increased diversity in its undergraduate program, with 31% of its Bachelor's degrees being awarded to women in 2019, which ranks 6th among public institutions.

The department is primed for further success. It enrolls a stellar group of undergraduate and graduate students (3-time National Cyber Defense Challenge champions, 12+ faculty placements in recent years). It has a cadre of excellent young faculty (15 NSF CAREER awardees) and established senior faculty (7 ACM/IEEE Fellows). It enjoys the committed support of university leadership (as evidenced by substantial internal funding to establish the LinkLab and the Biocomplexity Institute in the past 3 years). It has excellent relationships with leaders of the burgeoning regional technology sector in Virginia. The new chair will build on this momentum to take the UVA Computer Science department to the next level in this exciting time for its stakeholders.

The University of Virginia is annually ranked as one of the premier public institutions in the United States and is located in Charlottesville, a picturesque and vibrant small city perennially ranked as one of the best places to live in the U.S. More information about town, the school, faculty benefits and other topics can be found at *https://provost.virginia.edu/subsite/faculty-affairs/new-faculty-candidate-resources*.

UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit *https://dualcareer.virginia.edu/*.

Please apply online at *https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Department-Chair-for-Computer-Science_R0020607* and attach the following documents:

- a CV to include contact information for three references;
- an overview of major research contributions and future research plans;
- a teaching statement;
- a statement describing your work related to diversity, equity, and inclusion;
- a cover letter describing your leadership philosophy and why you feel you are a good fit for the UVA chair position.

The University will perform background checks on all new hires prior to employment. This position will also require an Education Verification (FSAKA).

Review of candidates will begin on January 14, 2021, and will continue until filled.

For questions regarding the position, please contact Matthew Dwyer, Search Committee Chair, at *matthewbdwyer@virginia.edu*.

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at *rkh6j@virginia.edu*

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

University of Virginia

Computer Science Postdoctoral Research Associate

The Department of Computer Science is seeking diverse candidates for one or more Postdoctoral Research Associates to conduct research in computer architecture under the supervision of Samira Khan or Kevin Skadron.

We are seeking candidates to perform cutting-edge research on computer architecture and systems as part of the UVA Center for Research on Intelligent Storage and Processing in Memory, CRISP (*https://crisp.engineering.virginia.edu*), in the areas of system support for emerging memory technologies, near-data processing, hardware accelerators, automata processing, and applications to network processing. The candidate is expected to lead their own research projects as well as mentoring and supervising Ph.D. students.

QUALIFICATIONS: Candidates must have a Ph.D. in Computer Science, Computer Engineering, or a related field by the time they take up the position. The ideal candidate will have a strong publication record and experience with one or more of the following: computer architecture simulation tools, compiler development (e.g., LLVM), kernel programming, or FPGA programming. Additional experience in optimization for a data-intensive target application domain is beneficial but not required. The applicant should also possess good technical writing skills as evidenced by their publications.

APPLICATION PROCEDURE: Apply at *https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Research-Associate-in-Computer-Science_R0020764* and attach a cover letter indicating research interests, a detailed curriculum vitae, a summary of prior research experience and future research and career plans, and contact information for three references. Please note that multiple documents can be uploaded in the CV box. Make sure to upload all documents to complete your application.

APPLICATION DEADLINE: Review of applications will begin on January 20, 2021, and the posting will remain open until filled. The University will perform background checks on all new hires prior to employment.

This is a one-year appointment; however, the appointment may be renewed for an additional year contingent upon available funding and satisfactory performance.

For questions regarding this position, please contact Profs. Kevin Skadron, *skadron@virginia.edu*, or Samira Khan, *samirakhan@virginia.edu*.

For questions regarding the application process, contact Rich Haverstrom, Faculty Search Advisor, at *rkh6j@virginia.edu*.

For more information on the benefits available to postdoctoral associates at UVA, visit *postdoc.virginia.edu* and *hr.virginia.edu/benefits*.

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

University of Waterloo

Information Systems and Data Analytics

The Department of Management Sciences in the Faculty of Engineering at the University of Waterloo invites applications for one tenure-track faculty position at the rank of Assistant Professor in Information Systems with an anticipated start date of July 1, 2021. In the case of an exceptional candidate, an appointment at the rank of Associate Professor or Full Professor will be considered.

Applicants should hold a PhD or be near completion of their doctorate, and have demonstrated research and teaching potential in computer science, information systems, or related fields. We seek individuals with research and teaching interests at the interface of Information Systems (IS) and Data Analytics. In particular, we seek applicants

with experience and interest in large-scale data management and analysis, with an emphasis on solving real-world problems using cutting-edge data-intensive methods. Areas of interest include data-intensive computing, big data analytics, machine learning, and artificial intelligence. In addition to typical computer science courses, the successful applicant will be expected to be able to teach undergraduate and graduate courses in areas such as database management systems, machine learning, and statistical methods for data analysis.

Successful applicants are expected to maintain an active program of research, to attract and supervise graduate and undergraduate students, and to participate in undergraduate and graduate teaching. The salary range at the rank of Assistant or Associate Professor is CAD $120,000 to $150,000. Negotiations beyond this salary range will be considered for exceptionally qualified candidates.

Management Sciences is a dynamic and growing interdisciplinary department in the Faculty of Engineering that has active research and teaching activities in Information Systems, Operations Research, and Management of Technology. The Department offers an undergraduate degree in Management Engineering, as well as Master's and PhD programs in Management Sciences.

Applications should be submitted electronically at: *https://mansci-webapps.uwaterloo.ca/OFAS/*

A cover letter indicating for which specific position the applicant wishes to be considered for, curriculum vitae, research vision statement, teaching vision statement (teaching evaluations if available), up to four sample publications, and the contact information for at least 3 references are required for the application to be considered fully complete. References will be contacted only if an applicant is shortlisted for a position.

The deadline for applications is April 1, 2021. Applications received before the deadline will receive full consideration.

If you have any questions regarding the position, the application process, assessment process, eligibility, or a request for accommodation during the hiring process, please contact: Mrs. Gini Kennings, Administrative Assistant to the Chair, Department of Management Sciences, University of Waterloo, 200 University Avenue West, Waterloo, Ontario, N2L 3G1, Canada, email: *givan@uwaterloo.ca*

The University of Waterloo regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. As such, we encourage applications from women, persons with disabilities, Indigenous peoples, members of visible minorities, and others who may contribute to the further diversification of ideas. At Waterloo, you will have the opportunity to work across disciplines and collaborate with an international community of scholars and a diverse student body, situated in a rapidly growing community that has been termed a "hub of innovation."

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

Three reasons to apply: *https://uwaterloo.ca/faculty-association/why-waterloo*

University of Western Ontario

Faculty Positions In Artificial Intelligence

Joint Positions

Department of Electrical and Computer Engineering Department of Computer Science

The Faculty of Engineering and the Faculty of Science at The University of Western Ontario, one of Canada's leading research-intensive universities, are jointly seeking applicants for two (2) faculty positions in the area of Artificial Intelligence. Successful applicants will be appointed at the rank of Assistant Professor (Probationary Tenure- track), Associate Professor (Probationary Tenure-track or Tenured), or Full Professor with Tenure depending on qualifications and experience.

Consideration of applications will begin February 15, 2021, with the intent that the new faculty members will join Western's faculty effective July 1, 2021. The successful applicants will be Joint-Appointed in the Department of Computer Science and the Department of Electrical and Computer Engineering, with home department determined by research area.

Applicants must possess a PhD in an appropriate field (Computer Science,

Computer Engineering, Software Engineering, etc). Eligibility for PEng is an asset. The successful candidate will have made fundamental advances in artificial intelligence and contributions to the application of artificial intelligence especially in research areas of strength in the two departments as described below. The successful candidate must demonstrate an outstanding record of research productivity in the form of publications in high-impact peer reviewed journals and conferences, awards, invited talks and other scholarly achievements as appropriate for their career path and stage. Applicants must demonstrate that they are well-positioned to apply successfully for external funding in both the public and private sectors as evidenced by their current success at funding and/or their potential for future partnerships detailed in their research plan. Tenure and appointment at higher rank will be commensurate with evidence of excellence in research and impact through publications in the highest quality journals, and an established internationally-recognized, externally-funded research program.

The Department of Computer Science has research strengths in algorithms, artificial intelligence and machine learning, bioinformatics, computational neuroscience, distributed systems, networking, software engineering and theoretical computer science. The Department of Electrical and Computer Engineering has research strengths in data analytics, software engineering, network communications, robotics, power systems and biomedical engineering. Both Departments have strong ties to industry and strongly encourage and support participation in interdisciplinary research. Recent investment through a partnership between Bell Canada and Western will see the creation of an advanced 5G research centre that will enable Western to become a "living lab" for shaping smart cities and communication systems. The Departments jointly offer a collaborative Master's program in Artificial Intelligence. Computer Science jointly offers an undergraduate data science program and a professional Master's program in data analytics with the Department of Statistical and Actuarial Science.

Western University is a prominent academic institution routinely ranked as a top research-intensive university in Canada and is committed to excel as a leading research institution internationally. Western University has a full-time enrollment of about 32,000 students in a range of academic and professional programs. Further information about Western can be found at ***http://www.uwo.ca/,*** The Faculty of Engineering at ***http://www.eng.uwo.ca,*** The Department of Electrical & Computer Engineering ***https://www.eng.uwo.ca/electrical/,*** The Faculty of Science at ***https://www.uwo.ca/sci/*** and the Department of Computer Science at ***https://www.csd.uwo.ca.*** The university campus is in London Ontario, a thriving city of 404,000, located midway between Toronto and Detroit. With parks, river valleys, tree-lined streets, and bicycle paths, London is known as the "Forest City" and boasts an international airport, galleries, theatre, music and sporting events (see ***http://www.ledc.com***). Western Engineering's Mission, Vision and Values can be found at ***https://www.eng.uwo.ca/files/departments-units/human-resources/values-mission-statement.pdf***. Western's Recruitment & Retention Office is available to assist in the transition of successful applicants and their families.

If you share our commitment to excellence in teaching and research, and are eager to pursue a rewarding academic career, please send (i) a detailed curriculum vitae, (ii) a description of teaching experience and philosophy, (iii) a brief description of your current research program, accomplishments, and future plans, (iv) copies of representative publications, and (v) the names of three referees. Applications should be sent to: ***csece@uwo.ca***.

Consideration of applications will commence on February 15, 2021 and will continue until the position is filled. Please ensure that the form available at ***http://www.uwo.ca/facultyrelations/faculty/Application-FullTime-Faculty- Position-Form.pdf*** is completed and included in your application submission.

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. The University invites applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups, Indigenous peoples, persons with disabilities, persons of any

WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

Assistant Professor of Computer Sciences

As a part of the vision for the newly formed **School of Computer, Data & Information Sciences (CDIS)**, the Department of Computer Sciences at the University of Wisconsin–Madison has embarked on a multi-year effort to grow its faculty, enhance its strengths in many areas of computing, and extend its impact in interdisciplinary areas. As part of this endeavor, we invite highly qualified candidates in all areas of computer science, especially in machine learning, computer vision, natural-language processing, and software engineering, to apply to positions at the assistant professor level that will begin in August 2021.

Applicants must have a Ph.D. in Computer Science or in a closely related area prior to start of appointment. Successful candidates will show potential for developing an outstanding scholarly research program in one or more area(s) of computer science that is recognized by the leaders of the area(s) and for innovative and for student-centered teaching in computer science at all levels. Duties will include individual and classroom teaching in computer science at the undergraduate and graduate levels and advising and mentoring graduate students majoring in computer science or related areas; scholarly research in one or more area(s) of computer science; service to the department, college, university, and academic community, nationally or internationally.

All applications must be submitted through Academic Jobs Online. Application materials, including a curriculum vitae, statements of research and teaching objectives, three sample publications, and names and contact information for at least three references, must be electronically submitted via **http://cs.wisc.edu/faculty-apply**. Applicants are encouraged to submit their applications as soon as possible and no later than **March 31, 2021** to ensure full consideration. Applications will be accepted until positions are filled. Questions should be directed to recruiting@cs.wisc.edu.

See **https://www.cs.wisc.edu/people/faculty-staff-recruitment/** for further details.

UW–Madison is an equal opportunity/affirmative action employer and is committed to creating a diverse and inclusive community. We promote excellence through diversity and encourage all qualified individuals to apply. A background check is required prior to employment.

sexual orientation, and persons of any gender identity or gender expression.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents.

Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodations for interviews or other meetings, please contact csece@uwo.ca.

Washington University in St. Louis

Computer Science & Engineering

Open Teaching Faculty Position in Data Science

The Department of Computer Science & Engineering at Washington University in St. Louis (WashU) invites applications for a teaching track faculty position at any rank (Lecturer, Senior Lecturer, or Teaching Professor) with a target start date of July 1, 2021. Appointment decisions will reflect qualification and experience. This position is not tenured nor on the tenure-track. The Department is looking for an individual with a strong interest in teaching undergraduate courses focused on **computational aspects in data science**, and in helping develop an innovative curriculum & pedagogy in the data science area.

The Teaching Track at WashU provides access to an exciting career path with competitive compensation and stability of employment. Teaching faculty are full partners in the department, and encouraged to participate and publish in educational venues where they can share their experiences, learn of new pedagogical methods, and bring new ideas and techniques into the classroom.

Applicants should hold a doctoral degree in computer science or closely related field, and submit a complete application at *https://academicjobsonline.org/ajo/jobs/17996*.

Diversity and Inclusion are core values at Washington University, and the strong candidate will demonstrate the

ability to create inclusive classrooms and environments in which a diverse array of students can learn and thrive. An Equal Opportunity Affirmative Action Employer, Washington University seeks an exceptionally qualified and diverse faculty; women, minorities, protected veterans, and candidates with disabilities are strongly encouraged to apply.