

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

Announcing the 2021 Computing Innovation Fellows

This past spring, the **Computing Research Association (CRA)** and its **Computing Community Consortium (CCC)** announced funding for a cohort of **Computing Innovation Fellows (CIFellows)** for 2021, with strong support from the **National Science Foundation (NSF)**. The program sponsors two-year postdoctoral research positions in computing, as well as career development and cohort building activities, to provide a career-enhancing bridge experience for recent Ph.D. graduates. The program aims to address the continued disruption in hiring practices at academic institutions due to COVID-19. This effort was inspired by the CRA/CCC's NSF-funded **Computing Innovation Fellows Programs** with cohorts starting 2009, 2010, and 2011, CRA's **Best Practices Memo** on Computer Science Postdocs and the **Computing Innovation Fellows 2020 Project**.

see page 3 for full article

Upcoming CRA-Industry Roundtable Events

CRA-Industry, a standing committee of the CRA, was created recently with the goal of reaching out to industry partners involved in computing research and giving them new opportunities to convene and connect on topics of mutual interest with academic and government partners. The CRA-Industry committee recognizes the diversity of companies that participate in the computing research ecosystem and seeks to enable all those companies, big and small, tech and non-tech, to get the greatest benefit from partnerships with academia and government agencies. You can learn more about CRA-Industry by visiting our [web page](#) and/or signing up for our [mailing list](#).

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CRA Welcomes New Board Leadership, Board Members



New Board Leadership

In February, the CRA board of directors **elected board officers** to serve two-year terms beginning July 1, 2021. Nancy Amato is chair; Dan Grossman is vice-chair; Ran Libeskind-Hadas is secretary; James Allan is treasurer; and Jaime Teevan is the appointed member to the CRA Executive Committee. The previous board chair Ellen Zegura ended her term on June 30, 2021. During her term of service as board chair, Ellen spearheaded the CRA strategic planning effort to think broadly and ambitiously about the future of the organization, guided CRA during the uncertain times of the pandemic, and initiated the search for a new executive director. CRA appreciates her leadership during her service as board chair (2019-2021) and board member (2011-2021).



Nancy Amato,
Chair



Dan Grossman,
Vice-chair



Ran Libeskind-Hadas,
Secretary



James Allan,
Treasurer



Jaime Teevan,
Appointed Member

New Board Members

CRA welcomes **three new members** to its board of directors: Diana Franklin, Eve Schooler and Katie Siek. Their terms run from July 1, 2021 through June 30, 2024. Retiring from the board as of June 30, 2021 are Michael Franklin, Kathryn McKinley, Greg Morrisett, and Ellen Zegura. CRA thanks them all for contributions during their service on the board.



Diana Franklin



Eve Schooler



Katie Siek

Committee Updates

The **Computing Community Consortium** and the **CRA-Education Committee** also welcomed new members on July 1, and CRA-Widening Participation **thanked retiring board members**.

Announcing the 2021 Computing Innovation Fellows



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CI Fellows 2021

Computing Innovation Fellows



This past spring, the **Computing Research Association (CRA)** and its **Computing Community Consortium (CCC)** announced funding for a cohort of **Computing Innovation Fellows (CI Fellows)** for 2021, with strong support from the **National Science Foundation (NSF)**. The program sponsors two-year postdoctoral research positions in computing, as well as career development and cohort building activities, to provide a career-enhancing bridge experience for recent Ph.D. graduates. The program aims to address the continued disruption in hiring practices at academic institutions due to COVID-19. This effort was inspired by the CRA/CCC's NSF-funded **Computing Innovation Fellows Programs** with cohorts starting 2009, 2010, and 2011, CRA's **Best Practices Memo** on Computer Science Postdocs and the **Computing Innovation Fellows 2020 Project**.

Many thanks to all the people that invested their time and talents to make the CI Fellows 2021 program possible including reviewers, staff, and committee members; and a special thank you to the selection committee: **Elizabeth Bradley** (CCC Chair and University of Colorado, Boulder), **Emery Berger** (University of Massachusetts Amherst), **Azer Bestavros** (Boston University), **Randal Bryant** (Carnegie Mellon University), **Ken Calvert** (University of Kentucky), **Marie desJardins** (Simmons University), **Jessica Hodgins** (Carnegie Mellon University), **Ben**

Kuipers (University of Michigan), **Daniel Lopresti** (Lehigh University), **Ray Mooney** (University of Texas Austin), **Sean Munson** (University of Washington), **Jelani Nelson** (University of California, Berkeley), **Katie Siek** (Indiana University) and **Ellen Zegura** (former CRA Board Chair and Georgia Tech). We received 238 applications covering a wide variety of research areas and over 108 universities. After 476 reviews by 102 community members, the selection committee chose 69 new CI Fellows. Thank you to the entire community for your involvement in promoting, mentoring, and reviewing applications for our recent graduates.

CRA and CCC are extremely excited to announce the CI Fellows for 2021! This cohort is comprised of 69 diverse researchers covering a broad range of areas in computing. The 2021 class of CI Fellows is 52% women, come from 49 universities, and will be beginning their fellowships at 48 different universities. Below is a listing of the 2021 CI Fellows. You can [find out more about each CI Fellow and the program here](#).

CRA and CCC are working with the computing community to ensure that this program facilitates career and skill growth for the CI Fellows in supportive environments to foster the talent of the future computing research community. Please join us in congratulating the new CI Fellows!

CI Fellow	Primary Affiliation	Host Institution	Mentor
Sara Abdali	University of California, Riverside	Georgia Institute of Technology	Srijan Kumar
Ben Abramowitz	Rensselaer Polytechnic Institute	Tulane University	Nicholas Mattei
Taslima Akter	Indiana University School of Informatics and Computing	University of California, Irvine	Anne Marie Piper
Kevin Bello	Purdue University	University of Chicago	Bryon Aragam
Prajakta Belsare	University of Alabama, Birmingham	Dartmouth College	Temiloluwa O. Prioleau
Jasmine Berry	University of Southern California	University of Michigan	Odest Chadwicke Jenkins
Alexis Block	ETH Zurich	University of California, Los Angeles	Veronica Santos

Computing Innovation Fellows (*continued*)



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Kiate Brantley	University of Maryland	Cornell University	Thorsten Joachims
Ceara Byrne	Georgia Institute of Technology	Massachusetts Institute of Technology	Giovanni Traverso
Francisco Castro	Worcester Polytechnic Institute	New York University	Kayla DesPortes
Janelle Clark	Rice University	University of Massachusetts, Lowell	Holly Yanco
Michael Craigie	Rutgers, The State University of New Jersey	Rutgers, The State University of New Jersey	Antonina Mitrofanova
Mallesham Dasari	Stony Brook University, SUNY	University of Minnesota	Feng Qian
Sami Davies	University of Washington	Northwestern University	Samir Khuller
Matthew Drescher	Université libre de Bruxelles	University of California, Davis	John Owens
Kuan Fang	Stanford University	University of California, Berkeley	Sergey Levine
Rebecca Faust	University of Arizona	Virginia Tech	Chris North
Adriane Ferand	University of California, San Diego	Carnegie Mellon University	Lining Yao
Sainyam Galhotra	University of Massachusetts, Amherst	University of Chicago	Raul Castro Fernandez
Ali Ghanbari	University of Texas, Dallas	Iowa State University	Hridesh Rajan
Anitha Gollamudi	Harvard University	Yale University	Zhong Shao
Leah Horgan	University of California, Irvine	Northeastern University	Sara Wylie
Layne Hubbard	University of Colorado, Boulder	University of California, Irvine	Mark Warschauer
Andrew Hundt	Johns Hopkins University	Georgia Institute of Technology	Matthew Gombolay
Umar Iqbal	University of Iowa	University of Washington	Franziska Roesner
Shweta Jain	University of California, Santa Cruz	University of Utah	Blair Sullivan
Gayithri Jayathirtha	University of Pennsylvania	University of Oregon	Joanne Goode
Emmanuel Johnson	University of Southern California	University of Southern California	Yolanda Gil
Anne Jonas	University of California, Berkeley	Michigan State University	Jean Hardy
Swapna Joshi	Indiana University School of Informatics and Computing	University of Massachusetts, Amherst	Narges Mahyar
Sushrut Karmalkar	University of Texas, Austin	University of Wisconsin, Madison	Ilias Diakonikolas
Saba Kawas	University of Washington	University of Minnesota	Lana Yarosh
Sualeh Khurshid	Texas A&M University	Massachusetts Institute of Technology	Themistoklis Sapsis
Nurit Kirshenbaum	University of Hawaii	University of Hawaii	Jason Leigh
Tiffany Kneareem	Pennsylvania State University	University of California, San Diego	Elizabeth Eikey
Adam Li	Johns Hopkins University	Columbia University	Elias Bareinboim
Yun Li	George Mason University	Emory University	Liang Zhao
Tianyu Liu	University of Wisconsin, Madison	Stanford University	Nima Anari
Zoey Liu	University of California, Davis	Boston College	Emily Prud'hommeaux
Samiha Marwan	North Carolina State University	University of Nebraska at Omaha	Briana Morrison

Computing Innovation Fellows (*continued*)



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Stephen McAleer	University of California, Irvine	Carnegie Mellon University	Tuomas Sandholm
Mehran Mirramezani	University of California, Berkeley	Princeton University	Ryan P. Adams
Kenneth Boyenah Nimley	Drexel University	George Mason University	Aditya Johri
Tapti Palit	Stony Brook University, SUNY	Purdue University	Pedro Fonseca
Sunoo Park	Massachusetts Institute of Technology	Cornell University	Helen Nissenbaum
Denis Peskov	University of Maryland	Princeton University	Brandon Stewart
Vincent Peta	South Dakota State University	University of South Dakota	Etienne Gnimieba
Lauren Pick	Princeton University	University of Wisconsin, Madison	Aws Albarghouthi
Raghavendra Pradyumna Pothukuchi	University of Illinois, Urbana Champaign	Yale University	Abhishek Bhattacharjee (and Jonathan Cohen)
Ghulam Jilani Quadri	University of South Florida	University of North Carolina-Chapel Hill	Danielle Albers Szafir
Lana Ramjit	University of California, Los Angeles	Cornell Tech	Nicola Dell
Tatiana Ringenberg	Purdue University	Indiana University School of Informatics and Computing	Jean Camp
Michael Rivera	Carnegie Mellon University	University of Colorado, Boulder	Laura Devendorf
Amrita Roy Chowdhury	University of Wisconsin, Madison	University of California, San Diego	Kamalika Chaudhuri
Gourav Saha	Rensselaer Polytechnic Institute	Purdue University	Xiaojun Lin
Jean Salac	University of Chicago	University of Washington	Amy J Ko
Shruti Sannon	Cornell University	University of Michigan	Tawanna Dillahunt
Joseph Seering	Carnegie Mellon University	Stanford University	Michael Bernstein
Nasim Sonboli	University of Colorado, Boulder	Tufts University	Bert Huang
David Tench	University of Massachusetts, Amherst	Rutgers, The State University of New Jersey	Martin Farach-Colton
Jerald Thomas	University of Minnesota	Virginia Tech	Doug Bowman
Wil Thomason	Cornell University	Rice University	Lydia Kavraki
Jesus del Carmen Valdiviezo Mora	Duke University	University of California, Berkeley	Teresa L. Head-Gordon
Jessica Vandenberg	North Carolina State University	North Carolina State University	Bradford Mott
Troi Williams	University of South Florida	University of Maryland	Pratap Tokekar
Le Xu	University of Illinois, Urbana Champaign	University of Texas, Austin	Aditya Akella
Fumeng Yang	Brown University	Northwestern University	Matthew Kay
Wanrong Zhang	Georgia Institute of Technology	Harvard University	Salil Vadhan
Jieyu Zhao	University of California, Los Angeles	University of Maryland	Hal Daumé III

CRA Launches Opportunity Board to Assist with Postdoc and Mentor Matching



The CRA is excited to announce the launch of an **Opportunity Board** to enable recent new PhD graduates and members of the community that are looking for postdocs to connect. This is a continuation of the Opportunity Board used to match potential postdocs and mentors during the CIFellows 2021 process. The board allows for the posting of postdoc opportunities by potential mentors and posts by those looking for a postdoc opportunity. We encourage members of the community to use this as a resource.

Postdoc Opportunity Board

This Opportunity Board is provided for the community to use to find potential mentor / postdoc pairings.

- This board will be monitored by CRA, but we will not be endorsing any posts or making any recommendations.
- Please use the options below to either post a profile or search through opportunities by research area.
- We ask that you remove your post once you have found someone to work with on an application.



The Opportunity Board lists four options:

- Find Mentor
- Find Postdoc
- Post Mentor Profile
- Post Postdoc Profile

You are able to search for potential postdocs and available postdoc positions by research area. This board is monitored by CRA, but we will not endorse any posts or make any recommendations. Posts will remain for six months before being removed. If you find a match, please remove your profile from the Opportunity Board. You can view the board [here](#).

Upcoming CRA-Industry Roundtable Events

By CRA-Industry Committee

CRA-Industry, a standing committee of the CRA, was created recently with the goal of reaching out to industry partners involved in computing research and giving them new opportunities to convene and connect on topics of mutual interest with academic and government partners. The CRA-Industry committee recognizes the diversity of companies that participate in the computing research ecosystem and seeks to enable all those companies, big and small, tech and non-tech, to get the greatest benefit from partnerships with academia and government agencies. You can learn more about CRA-Industry by visiting our [web page](#) and/or signing up for our [mailing list](#).

The initial focus of CRA-Industry has been on community-building activities that include hosting virtual round tables and in-person workshops, creation of white papers, and seeding of new collaborations across industry, academia and government. We are also coordinating closely with other CRA committees, such as CRA-WP and the CCC, which have a long history of engaging with industry partners on matters of shared interest. Recently, the CRA-Industry Committee kicked off a series of bimonthly 75-minute virtual Roundtable meetings, with the first one on Corporate Responsibility and Computing Research held in July 2021. These Roundtable meetings are planned to be held on a bimonthly cadence, and the next two are listed below. Please share this opportunity with others who may be interested. Participation in CRA-Industry events does not require membership in CRA, though all CRA members are especially welcome.

Roundtable on Best Practices on using the Cloud for Computing Research (planned for September 2021)

The purpose of this roundtable is to discuss best practices on using the cloud as computing research infrastructure, and the resulting synergistic opportunities across academia, industry, and government. Historically, CS researchers have provisioned their own infrastructure for research, with their research lab staff incurring significant overhead to maintain and update lab equipment. This impacts the quality of results due to the use of platforms that are underutilized and out-of-date. Recently, a few CS researchers have turned to the use of cloud computing for research, but they often encounter key limitations including: 1) Need for periodic short-term access to large-scale resources, 2) Lack of an ability to "look under the hood", 3) Demystifying and capping costs beyond initial gift allocations. This roundtable seeks to elicit new opportunities and directions for making the cloud more accessible as a research resource.

Roundtable on Research and Decision Horizons in the Semiconductor Technology Ecosystem (planned for November 2021)

The purpose of this roundtable is to identify principles and opportunities for cross-stack research collaboration in computing, with particular attention to synergies between process technology, design, systems, and applications. Analogous to the national academies "tire



track" diagram, which shows the interplay between academic research, industry, and government with several "long distance" paths between disciplines, we hope to come to a better understanding of how to identify and foster opportunities for "long distance" leaps between layers of the computing stack. The roundtable will review the history of NVRAM as a motivating example, and consider industry decision timeframes as a key issue in identifying and realizing research collaboration opportunities.

CRA-Industry Steering Committee:

Vivek Sarkar (Georgia Tech) Co-Chair
 Ben Zorn (Microsoft) Co-Chair
 Lorrie Cranor (Carnegie Mellon University)
 Fatma Özcan (Google)
 Chris Ramming (VMware)
 Divesh Srivastava (AT&T)
 Gil Vandentop (Intel)
 YY Zhou (UCSD)

CRA-Industry Senior Program Associate Position Open



The Computing Research Association (CRA) seeks a full-time employee to join our team as a Senior Program Associate for the CRA Industry standing committee (CRA-Industry). CRA-Industry is a newly formed standing committee that convenes industry partners on computing research topics of mutual interest and connects our partners with CRA's academic and government constituents for mutual benefit and improved societal outcomes. More information about CRA-Industry is available here: <https://cra.org/industry/>

The Senior Program Associate will be primarily responsible for program management aspects of all CRA-Industry activities, including outreach to industry partners, organizing meetings with participants from industry, government, and academia and coordinating with other CRA committees, including CRA-WP and the CCC. Since computing research occurs across a wide diversity of companies, the Senior Program Associate will have the opportunity to work with individuals at large tech companies, startups, and companies across many industries, such as transportation, finance, and healthcare, as well as leaders in academia and government.

The Senior Program Associate will engage with members of the CRA-Industry committee and the industry computing research community to further develop awareness of CRA-Industry and its work. They will work closely with the CRA-Industry steering committee, which consists of senior leaders of the computing research community. Creativity, attention to detail, organization, and strong verbal and written communication skills are highly desired. The ideal candidate will be a quick learner and be able to take initiative to fulfill responsibilities with a significant level of autonomy. Collaboration and teamwork are integral to this position and CRA's core values. A willingness to broaden one's awareness of the Computing field is a must.

Specific responsibilities include (but are not limited to):

- Engaging with individuals across computing research in industry, academia, and government, helping build collaborations
- Coordinating activities of CRA-Industry contributors, including organizing meetings and follow-up activities such as preparing white papers
- Preparing technical reports and infographics
- Communicating with CRA-Industry collaborators and affiliates (e.g., via email, at meetings, etc.)
- Promoting CRA-Industry's work through blog posts and presentations
- Supporting and coordinating with CRA on other programs and awards as needed

Basic Qualifications

- Bachelor's degree with some experience working with technology and computing
- At least 5+ years of relevant work experience
- Can proactively engage with community, organizing and initiating activities to drive agenda
- Experience supporting or conducting program evaluation
- Ability to monitor projects and activities to define goals and ensure they are met
- Strong organizational skills and attention to detail
- Excellent oral and written communication skills
- Proficiency in Microsoft Office Suite (specifically Word and Excel) and G Suite (Google Sheets, Google Docs)

Desired qualifications:

- Master's degree with connection to program management, computing, or both
- Specialized certifications in training on program management
- Skills with management and collaboration tools such as MS Project, Excel, Slack, MS Teams
- Familiarity with database systems
- Familiarity with computing research community including academia, government and/or industry
- Ability to devise new programs that further the CRA-Industry objectives

Senior Program Associate Position (*continued*)

Position details

- This position will involve some travel to attend meetings, conferences, and workshops
- This position does not require heavy lifting, but occasionally may include lifting small boxes, such as travel materials or paper (e.g., no more than 10-20 lbs)
- This position includes sitting for long periods of time in front of a computer screen.
- Must be eligible to work in the United States
- CRA is an equal-opportunity employer
- CRA offers an excellent benefits package
- While the CRA office is located in Washington DC, applicants will have the option to work from a remote location with occasional trips to the home office

To apply: Please send a cover letter, resume, a recent writing sample (e.g., technical report, article), and a list of 2-3 references to employment@cra.org. Applications will be accepted on a rolling basis at least through August 2021 and until the position is filled.

CRA-E Announces Four New Committee Members



The CRA Education Committee (CRA-E) recently welcomed four new members to the committee: Janet Davis, Gary Holness, Victoria Interrante, and Brandon Myers. Christine Alvarado (University of California, San Diego) and Ran Libeskind-Hadas (Claremont McKenna College) will be leaving the committee after its August board meeting. Christine has served on the board from 2017-2021, and Ran co-founded the committee, serving as co-chair from 2011-2017 and board member from 2011-2021. Both have contributed significantly to the mission of CRA-E with work on various projects and awards. CRA-E thanks them both for contributions during their service on the committee.



Janet Davis

Associate Professor of Computer Science and Microsoft Chair of Computer Science, Whitman College

Janet Davis earned her Ph.D. and M.S. in Computer Science and Engineering at the University of Washington in 2006 and 2001 respectively, and her B.S. in Computer Science at Harvey Mudd College in 1999. Her current research concerns the value sensitive design of persuasive technology to influence language use, particularly with respect to gender. She serves as founding chair of the Computer Science Department at Whitman College, in Walla Walla, Washington.

Janet has been a vocal advocate for CS faculty careers at primarily undergraduate institutions (PUIs) since she started her first faculty position at Grinnell College in 2006. She has organized and participated in many panels on teaching-oriented CS

faculty careers; she has also published two conference papers, in [2006](#) and [2021](#), and a 2019 [CACM blog post](#). She is the author of the 2019 article in the *Chronicle of Higher Education*, [5 ways to welcome women to computer science](#). She is a regular contributor to the SIGCSE Annual Technical Symposium on Computer Science Education.



Gary Holness

Associate Professor of Computer Science, Clark University

Gary Holness gets an absolute thrill from building things; that is bringing ideas, theories, and algorithms to life! He focuses on the investigation, design, and algorithmic realization of models that endow computing machines and systems with the ability to sense, interpret and act upon the content of their environment. His work ranges from theoretical to applied including the development of new mathematical models, algorithms for pattern recognition, computational approaches and architectures in support of intelligent systems, prototype systems, and experiments.

His career includes 11 years in academia at Delaware State University over which he has supervised 32 undergraduate, 11 M.S., and 2 PhD student research projects.

Also at DSU he contributed to the redesign of two undergraduate curricula, the BS in Computer Science and the BS in Information Technology, made significant contributions to the design and launch of a new graduate program, the MS in Computer Science, and served as the inaugural graduate program director.

New Committee Members (*continued*)



Victoria Interrante

Professor of Computer Science and Engineering, University of Minnesota

Victoria Interrante's interdisciplinary research focuses on applying insights from visual perception and cognition to the development of more effective virtual reality experiences and the more effective communication of complex information through visual imagery. In addition to her appointment in Computer Science, she is currently serving as the director of the university-wide Center for Cognitive Sciences and as a member of the graduate faculty in two interdisciplinary programs: Cognitive Science and Human Factors & Ergonomics. Victoria is a recipient of the 2020 IEEE VGTC Virtual Reality Career Award and has a 20+ year history of mentoring undergraduate students in research.



Brandon Myers

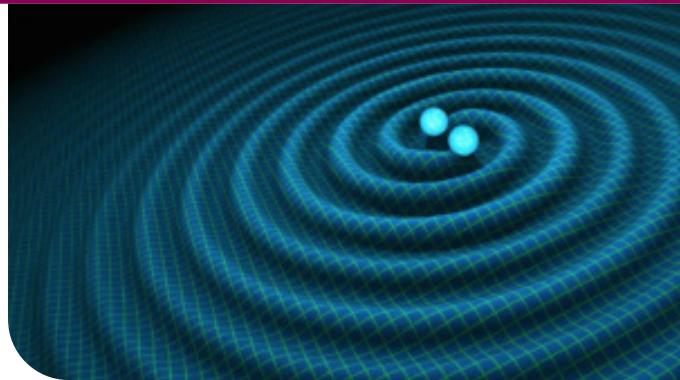
Lecturer, Computer Science, University of Iowa

Brandon Myers is a Lecturer in the Computer Science Department at the University of Iowa. He studies cooperative learning in undergraduate computer science, and he has authored open-access learning activities (specifically, POGIL) spanning a course on computer organization and architecture. Among the courses he teaches is computer science teaching methods for K-12 teachers. Brandon earned his Ph.D. in Computer Science and Engineering at the University of Washington in 2016 and his B.S. in Electrical Engineering and Computer Science at the University of California, Berkeley in 2010.

Using AI to Detect Gravitational Waves

By CCC Staff

Gravitational waves, ‘ripples’ in space-time caused by some of the most violent and energetic processes in the Universe, were first predicted by Albert Einstein in 1916 in his general theory of relativity. Proof of their existence didn’t arrive until 1974. Then on September 14, 2015 the **Laser Interferometer Gravitational-Wave Observatory** (LIGO) physically sensed the undulations in spacetime caused by gravitational waves generated by two colliding black holes 1.3 billion light-years away.



Now, **Computing Community Consortium** (CCC) Council member Ian Foster (**Argonne National Laboratory** and **University of Chicago**) and his colleagues have published [a paper in the journal Nature Astronomy](#) showing that the hunt for gravitational waves across the universe can be supercharged by using artificial intelligence. They were able to successfully process an entire month’s worth of advanced LIGO data in just seven minutes, using reusable artificial intelligence (AI) models, identifying all four binary black hole mergers previously identified in this dataset and reporting no misclassification.

“

As a computer scientist, what’s exciting to me about this project is that it shows how, with the right tools, AI methods can be integrated naturally into the workflows of scientists – allowing them to do their work faster and better – augmenting, not replacing, human intelligence,” Ian Foster, [said](#) in the Argonne National Laboratory Press Release.

See the [Accelerated, scalable and reproducible AI-driven gravitational wave detection](#) Nature Astronomy paper [here](#) for more information.

Visions in Theoretical Computer Science Workshop Report: A Report on the TCS Visioning Workshop 2020



By CCC Staff

Roughly every ten years the Theoretical Computer Science (TCS) community comes together for a visioning workshop to discuss recent accomplishments and new challenges in the field of TCS. The workshop acts as an opportunity for reflection within the community and a way of informing interested investors. The newly released **Visions in Theoretical Computer Science Workshop Report**, written by **Shuchi Chawla** (University of Wisconsin-Madison), **Jelani Nelson** (University of California, Berkeley), **Chris Umans** (California Institute of Technology), and **David Woodruff** (Carnegie Mellon University) and supported by the **Computing Community Consortium**, summarizes the key takeaways from the 2020 TCS Visioning Workshop.

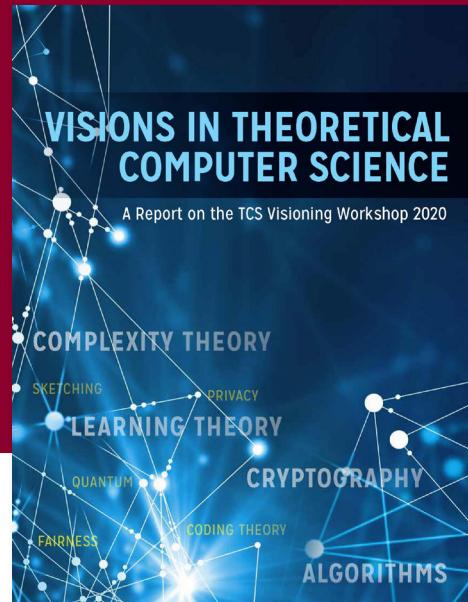
Organized by the **SIGACT Committee for the Advancement of Theoretical Computer Science**, the July 2020 TCS Visioning Workshop was held online with over 70 participants.

Participants spanned a broad range of areas within the discipline including data-driven algorithms, coding theory and communication, complexity theory, optimization, cryptography, foundations of machine learning and data science, sublinear algorithms, distributed computing, economics and computer science, fairness and social good, privacy, and quantum computing.

Participants were divided into four categories for a series of discussions: (1) models of computation; (2) foundations of data science; (3) cryptography; and (4) using theoretical computer science for other domains. Key takeaways from these discussions were synthesized and made into 'nuggets' each summarizing a particular point. The 2020 TCS Visioning Workshop Report is made up of 36 nuggets that identify the challenges, potential research directions, and progress in the TCS field over the past decade.

The goal of the report is to show that TCS is vital to the health and success of the field of computer science and technological progress as a whole. It calls for the robust support of the foundational work in TCS to enable unrestricted research and development in the field that will in turn allow for TCS to have the greatest possible impact on society and technology.

Please see [the full report here](#).



CCC/Code 8.7 Applying AI in the Fight Against Modern Slavery Workshop Report Released



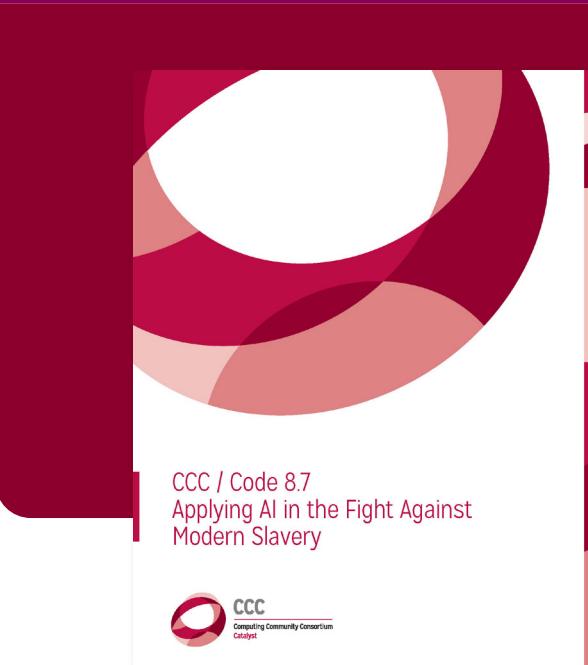
By CCC Staff

The Computing Community Consortium (CCC), along with Code 8.7, is pleased to announce the release of the [CCC / Code 8.7 Applying AI in the Fight Against Modern Slavery Workshop Report](#). This March 2020 workshop brought together over 50 members of the computing research community along with anti-slavery practitioners and survivors to lay out a research roadmap aimed at applying AI to the fight against human trafficking.

The primary goal was to explore ways in which long-range research in artificial intelligence (AI) could be applied to the fight against human trafficking. Building on the kickoff Code 8.7 conference held at the headquarters of the United Nations in February 2019, the focus for this workshop was to link the ambitious goals outlined in the [A 20-Year Community Roadmap for Artificial Intelligence Research in the US \(AI Roadmap\)](#) to challenges vital in achieving the UN's Sustainable Development Goal Target 8.7, the elimination of modern slavery.

In the time since the workshop took place, the world was slammed by a global pandemic. Social unrest also rocked a number of countries, including the US. The resulting report reflects discussions at the March 2020 workshop with an awareness of the events of the past year.

See [the full report here](#).



CERP Receives Contract with NSF CISE to Evaluate REU Programs



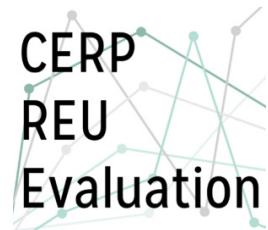
By CERP Staff

Recently, CERP was contracted by the National Science Foundation (NSF) Directorate for Computer and Information Science and Engineering (CISE) to evaluate the CISE Research Experiences for Undergraduates (REU) Program. Through this contract, CERP will provide evaluation for REU Sites and REU Supplements, starting spring of 2022. More information about CERP's plans for evaluation can be found on the new [CERP REU Evaluation webpage](#).

If you are a Principal Investigator (PI) of an existing REU award, or you are preparing your REU proposal, [complete our interest form](#) to begin the process of working with CERP for evaluation.

After the interest form is submitted, someone from the evaluation team (cerpreu@cra.org) will confirm the entry and provide any necessary materials for proposal submission.

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. Subscribe to the CERP newsletter & bulletin by clicking [here](#). Volunteer for the Data Buddies Project by signing up [here](#).



Join Data Buddies Now to Start This Fall!

By CERP Staff

The [CRA Data Buddies Survey](#), an annual data collection initiative of the CRA Center for Evaluating the Research Pipeline (CERP), is actively recruiting new departments to join the project. Data collected via the Data Buddies Project provide useful insights into student attrition and retention, factors that support the successful matriculation into graduate school and research careers, and means by which the field can broaden participation from individuals who identify with groups considered underrepresented in computing (includes all women, persons with disabilities, and people who are Black, Hispanic, Native American/Indigenous, and Native Hawaiian/Pacific Islander).

Joining the Data Buddies Project is free and easy!

In exchange for your

participation, your department will receive a report that summarizes your students' responses alongside a comparison group of students from similar institutions. Click [here](#) to see a [sample report](#).

Once you join, there are just a few responsibilities for your department:

- Dedicate a liaison who will be responsible for communications. There must be at least one person, but we actively encourage more faculty to participate.
- Send 2-3 emails to students about the survey. Active recruitment is encouraged but not required.
- Communicate periodically with the CERP team about contact information updates and the number of students who receive the survey.

Of note, CERP takes the lead for all IRB responsibilities, but in rare cases, a university IRB might request involvement from the department liaison.

Are you on our [list of active Data Buddies](#)? If not, [sign up today!](#) All institutions, regardless of CRA membership status, are welcome to join the project. Once you submit an interest form, CERP staff will confirm your submission and start the onboarding process.

If you have any questions about Data Buddies, check out CERP's [newly redesigned webpage](#) that provides all that you need to know about the survey. You may also [contact CERP](#) at any time.

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

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. Subscribe to the CERP newsletter & bulletin by clicking [here](#). Volunteer for Data Buddies by signing up [here](#).

Computing Professionals in Industry and Academia View a Career in Computing Differently



By Burçin Tamer, Director of CERP

What do professionals in the industry and academia believe a career in computing would allow them to do?

	Industry (n = 1,330)	Academia (n = 372)
Serve humanity	43%	59%
Be in a position of influence in society	38%	49%
Spend a lot of time with family	51%	37%

Source: Data Buddies Survey (DBS) 2020, Center for Evaluating the Research Pipeline, Computing Research Association. The graphic shows percentage of people in each group who indicated their level of belief in each item as being quite a bit (4) or very much (5) on a scale of not at all (1) – very much (5). All comparisons between the industry and academia percentages were tested using two proportion comparison tests and are statistically significant ($p < 0.05$).

Individuals' beliefs about what a particular career path would allow them to do is a major determinant in whether they will pursue that path. This graphic shows perceptions of computing professionals in the industry and academia of how computing careers would allow them to serve humanity, be in a position of influence in society, and spend a lot of time with family.

Results indicate that professionals in academia believe more strongly than those in industry that a career in computing would allow them to serve humanity and be in a position of influence in society than do professionals working in industry. On the other hand, professionals in industry believe more strongly than those in academia that a career in computing would allow them to spend time with family.

Notes:

The survey data used in this graphic were collected in 2020 survey cycle by CERP via the [CRA Data Buddies Project](#).

The graphic shows percentage of people in each group who indicated their level of belief in each item as being quite a bit (4) or very much (5) on a scale of not at all (1) – very much (5). All comparisons between the industry and academia percentages were tested using two proportion comparison tests and are statistically significant ($p < 0.05$).

Respondents' employment setting (i.e., industry vs academia) are self-reported and asked only of those who selected indicated that they are not students and are currently employed full/part time. A range of positions and titles are included in each group including postdocs through full professors in academia and entry to senior level positions in industry.

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

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.

CRA/CERP Program Assistant Position Open



CERP
Computing Research Association
Evaluation



CRA
Computing Research Association

The Computing Research Association (CRA) seeks a full-time employee to join our team as a Program Assistant working with the **CRA Center for Evaluating the Research Pipeline (CERP)**. The following description outlines the general nature of this position and is not intended to be an exhaustive list of all responsibilities and skills necessary for this job.

The Program Assistant will be primarily responsible for the administrative aspects of CERP's activities and projects including, but not limited to, managing contact lists and other information, supporting communications for various initiatives, and coordinating meetings and workshops (both virtual and in-person). This position also has responsibility for website administration, requiring a basic understanding of website design and development, enabling content update and page development.

The ideal candidate will be able to execute assigned tasks and responsibilities with accuracy and within required timelines. Creativity, attention to detail, and information management skills are highly desired. Strong communication skills (both verbal and written) and a sense for diplomacy are important for success in this position.

Collaboration and teamwork are integral to this position and CRA's core values. This position will include supporting CRA on miscellaneous projects and activities as needed. A willingness to broaden one's awareness of the Computer Science and Engineering field is a must.

Required Qualifications

- Bachelor's degree
- At least 2 years of relevant work experience
- Skilled in administrative tasks such as contact management, timeline tracking, note taking, and calendar management
- Background in WordPress and other website management systems
- Demonstrated experience actively engaging with stakeholders (including direct communications with leadership and preparing materials for external review)
- Experience with event coordination and planning (both virtual and in-person)
- Marketing and social media skills
- Proficiency in Microsoft Office Suite (specifically Word and Excel), G Suite (Google Sheets, Google Docs), and other tools for information management

Desired Qualifications

- Basic knowledge of higher education research and/or social science
- Understanding of database systems
- Familiarity with Google Scripts
- Familiarity with Qualtrics survey platform
- Experience using CVENT or other event management software
- Experience with MailChimp
- A firm understanding of accessibility needs and related services

Other Position Information

- This position will involve some travel to attend meetings, conferences, and
- This position does not require heavy lifting, but occasionally may include lifting small boxes, such as travel materials or paper (e.g., no more than 10-20 lbs).
- This position includes sitting for long periods of time in front of a computer
- Must be eligible to work in the United States.
- CRA offers an excellent benefits
- CRA is an equal-opportunity
- While the CRA office is located in Washington DC, applicants will have the option to work from a remote location with occasional trips to the home

To Apply: Interested parties should send a cover letter, resume, and a list of 2-3 references to employment@cra.org. Applications will be accepted on a rolling basis until the position is filled.

Save the Date: 2022 CRA-WP Grad Cohorts



CRA-WP
Computing Research Association
Widening Participation



Grad Cohort **IDEALS**

San Diego, CA
March 24-26, 2022

Grad Cohort **WOMEN**

New Orleans, LA
April 20-22, 2022

Applications open October 1st

For more information, visit www.cra.org/cra-wp/



CRA-WP

Computing Research Association
Widening Participation

The CRA-WP Grad Cohort Workshops aim to widen the participation, access, opportunities, and experience of individuals in computing research by building and mentoring nationwide communities through their graduate studies.

Applications will open for the 2022 CRA-WP Graduate Cohort Workshops on October 1.

- Grad Cohort IDEALS - March 24-26, 2022 in San Diego, CA
- Grad Cohort Women - April 20-22, 2022 in New Orleans, LA

For more information, visit <https://cra.org/cra-wp/>.

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Column Editor

Expanding the Pipeline
Patty Lopez, Intel

Professional Opportunities

AAAS Science & Technology Policy Fellowships

Applications are now being accepted for the AAAS Science & Technology Policy Fellowships (STPF). This professional-level fellowship is the premier opportunity for outstanding computer scientists to learn first-hand about policymaking, bring valuable expertise to policy, and enhance scientific representation in the federal government.

Gain hands-on policy experience, help develop and execute solutions to address societal challenges, and join a strong corps of more than 3,400 policy-savvy alumni fellows working across sectors to serve the nation and citizens around the world.

Fellows serve yearlong assignments in all three branches of the federal government in Washington D.C. and represent a broad range of backgrounds, disciplines, and career stages. Fellow contributions can include data science and data analysis to drive programs and policies. STPF is seeking candidates with a strong background in mathematics and computer science an interest in career transformation and a desire to help impact federal policy.

QUALIFICATIONS

- Doctoral-level degree (Ph.D., MD, DVM, DSc, etc.) in any scientific, social science, or engineering discipline.
- Master's in engineering with three years of engineering-related professional experience.
- U.S. citizenship.

STIPEND & BENEFITS

- \$83,000–115,000.
- Health insurance.
- Travel/training and relocation allowances.

APPLICATIONS DUE:

November 1, 2021

FELLOWSHIP YEAR:

September 1, 2022 – August 31, 2023

APPLY TODAY:

https://fellowshipapp.aaas.org/app/main/?utm_source=jobpost&utm_medium=web&utm_campaign=stpf-2021-app-promo&utm_content=cra

Questions?

Email us at fellowships@aaas.org

China working to advance their technical knowledge and career advancement in computing and technology. Reporting to the CIDSE Director - Master of Engineering China, this position will provide program instruction in an online format, incorporating innovative teaching methodologies, cutting-edge technologies and other industry trends reflecting advancements in the computer science discipline. We are seeking an individual fluent in Mandarin with a strong passion for student success.

The position may also support the development of online graduate courses and student activities delivered in Mandarin. This is a non-tenure-track appointment with a renewable annual contract (12-months). Appointments will be made at the rank of Lecturer commensurate with the candidate's experience and accomplishments.

The successful candidates for this position will have a demonstrated record of excellence in teaching one or more Computer Science & Engineering subjects including but not limited to: computer architecture and systems, computer networks, computer security, operating systems, software engineering, data structures and algorithms, programming languages, compilers, mobile computing, and database systems. Lecturers also contribute to the service mission of the programs through student outreach activities, service on committees, and industry engagement activities in support of the Master of Engineering (Computing & Technology) degree program. Faculty

Arizona State University

Lecturer

The Ira A. Fulton Schools of Engineering at Arizona State University (ASU) seeks applicants for a full-time Lecturer position beginning Fall 2021. The position is based in Tempe, Arizona but as the School of Computing, Informatics, and Decision Systems Engineering (CIDSE) has locations on both the Tempe and Polytechnic campuses, some travel between locations should be expected. The job will involve teaching courses and facilitating student activities for the online Master of Engineering with an area of study in Computing and Technology. Students in this program are working professionals in

Professional Opportunities

are also expected to remain engaged in the profession through professional development and external services.

A minimum of an M.S. in Computer Science, Software Engineering, Computer Engineering or a related discipline is required. Preference will be given to those candidates with a Ph.D. or near completion of a Ph.D. with proven teaching skills in undergraduate education in both full-immersion and digital immersion formats. Professional experience in the areas of software application and systems development and a commitment to work collaboratively with a diverse student population is also desirable. Candidates must have mastery of written and verbal communication in Mandarin and English.

Review of applications will commence on July 5, 2021. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled.

Apply at

<https://hiring.engineering.asu.edu/>

Candidates will be asked to submit the following through their Interfolio Dossier:

- Cover letter
- Current CV
- Diversity Statement*
- Statement describing teaching experience
- Evidence of excellence in teaching and innovation
- Evidence of curriculum and/or program development

- Experience teaching online courses or using digital media in teaching and learning
- Contact information for at least three references

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

For further information or questions about this position, please contact Dr. Yinong Chen (YINONG.CHEN@asu.edu).

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

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

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and

resources. ASU's Annual Security and Fire Safety Report is available online at <https://www.asu.edu/police/PDFs/ASU-Clergy-Report.pdf> You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456.

Arizona State University

Lecturer (all ranks) in Software Engineering

The School of Computing, Informatics, and Decision Systems Engineering (CIDSE) in the Ira A. Fulton Schools of Engineering at Arizona State University (ASU) seeks applicants for a full-time lecturer (all ranks) position beginning Fall 2021.

This position is in primary support of the Software Engineering M.S. and B.S. programs on ASU's Polytechnic Campus, but lecturers are expected to support the instructional mission of all CIDSE programs. CIDSE has locations on the Tempe and Polytechnic Campuses so some travel between locations should be expected. In addition, CIDSE has an online presence and all faculty participate in the creation of curriculum and delivery of instruction in the online modality. This is a non-tenure-track appointment with a renewable fixed-term academic year contract. Appointments will be made at the rank of Principal Lecturer, Senior Lecturer or Lecturer commensurate with the candidate's experience and accomplishments. Opportunities exist to augment the academic year salary by assisting with summer instruction.

The successful candidate for this position will have a demonstrated record of excellence in teaching that incorporates

Professional Opportunities

active and project-based learning plus an extensive knowledge of software engineering. Lecturers should have the ability to teach in multiple areas across the curriculum, including data structures and algorithms, programming languages, software security and information assurance, web and mobile applications, and computer systems and networks. Lecturers also contribute to the service mission of the programs through student outreach activities, serve on committees and in industry engagement activities in support of CIDSE. Faculty are also expected to remain engaged in professional development and external service.

A minimum of an M.S. in Computer Science, Software Engineering, Computer Engineering, or a related discipline is required by the time of the appointment. Preference will be given to those candidates with a Ph.D. or near completion of a Ph.D. by the time of the appointment with proven teaching skills in undergraduate education in both full-immersion and digital immersion formats. Professional experience in the areas of software application and systems development and a commitment to work collaboratively with a diverse student population is also desirable.

Review of applications will commence on July 1, 2021.

Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled.

Apply at <https://hiring.engineering.asu.edu>. Candidates will be asked to submit the following through their Interfolio Dossier:

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

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

For further information or questions about this position please contact Dr. Srividya Bansal at (srividya.bansal@asu.edu)

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

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

In compliance with federal law, ASU prepares an annual report on campus

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

Carnegie Mellon University School of Computer Science

Faculty Hiring

SCS CRA AD 2021

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

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

Professional Opportunities

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

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

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

We will begin accepting applications beginning August 2, 2021.

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

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

Please send email to faculty-search@cs.cmu.edu with any questions.

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

Please submit a cover letter stating your interest in employment, (2) a current curriculum vitae that details relevant teaching experience, (3) a statement of teaching philosophy, and (4) the names and contact information for three professional references. Please indicate in your application materials your interest in being considered for temporary assignment openings and/or special assignment openings. All applicants must be submitted through the website. Do not e-mail applications to the contact person listed on this posting. Incomplete applications will not be considered. Interested applicants may apply electronically at <http://jobs.colostate.edu/postings/79474>.

References will not be contacted without prior notification to candidates.

The open pool is valid through August 19, 2021, at which time all applicants wishing to remain in the open pool must reapply.

CSU is an EO/EA/AA employer and conducts background checks on all final candidates. For details of the program, please see the full job description.

Colorado State University

Computer Science Instructor Open Pool

The department of computer science at CSU seeks applicants in the 2021-2022 year from individuals who are interested in obtaining teaching positions within the department. The open positions may be temporary or special assignments and are non-tenure track. Annual terms and reappointment may depend on performance and/or the continued availability of funding.

Cornell Tech, New York City

*Jacobs Technion-Cornell Institute
Endowed Professorship, Urban Tech*

The Jacobs Technion-Cornell Institute seeks to fill a tenured faculty position at the full professor level in the emerging area of urban technology. The position-holder will be nominated for an endowed chair.

Professional Opportunities

We seek candidates with demonstrated cross-disciplinary success in translating research results into real-world impact in both a core technical area and one or more domains related to urban systems. The ideal candidate will come from computer science, information science, electrical and computer engineering, or operations research and information engineering, with proven success bridging to urban systems-related disciplines; or possibly from an urban-related field, with a record of applying a strong digital foundation (computer science, operations research, etc.) in an urban application area.

Candidates must hold a Ph.D., have demonstrated an ability to conduct outstanding research at the level of a tenured full professor, and have a strong commitment to engagement outside of academia that results in significant commercial or societal impact. The successful candidates is expected to pursue an active research program, to teach master's and Ph.D.-level graduate courses, and to supervise graduate students.

Further information is available at <https://academicjobsonline.org/ajo/jobs/17406>. Applications can be submitted through that page and should be completed by October 15, 2021, to be considered.



Visiting Instructor - Department of Computer Science

The Department of Computer Science in the Allen E. Paulson College of Engineering and Computing invites applications and nominations for multiple positions of Visiting Instructor for the 2021-2022 academic year. The department offers an on-campus Bachelor of Science degree (accredited by CAC of ABET) with a major in Computer Science and a hybrid-format Master of Science degree (ranked #1 MS-CS program in the country by Intelligent.com). Candidates must have an earned MS or a terminal degree in Computer Science, or a closely related field. Candidates with teaching experience in the following areas are preferred: programming languages, databases, game programming, computer security. Screening of applications will begin June 28, 2021, and continue until the position is filled. The positions' starting date is August 1, 2021.

More information on the positions can be found at <https://apptrkr.com/2311709>

Emory University

Visiting Faculty in Computer Science

Atlanta, GA

Emory University's Computer Science Department invites applications for full time visiting positions. These are 9-month teaching-focused appointments renewable for up to three years.

Applicants must have a PhD in Computer Science, Mathematics, or a related discipline and be committed to excellence in undergraduate education. All areas of specialization will be considered.

Applications consisting of a cover letter, CV, teaching statement, evidence of teaching

excellence, and three recommendation letters should be submitted via <https://apply.interfolio.com/88005>

Informal inquiries are invited at cavap@emory.edu Review of applications will start immediately and continue until the position is filled. For additional information about the department, please see: <http://www.cs.emory.edu>.

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



Professional Opportunities



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

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



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

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

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

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



Professional Opportunities

Indian Institute of Technology Jodhpur, India

Faculty Position in CSE

The Department of Computer Science and Engineering at IIT Jodhpur invites applications for faculty positions at all levels. Candidates should have a Ph.D. degree in CSE or a related field. The candidates are expected to have an excellent research track record and commitment towards teaching. While we encourage candidates from all areas of CSE to apply, special emphasis will be given to the following areas: Algorithms, Quantum Computation, Information Security, Database Systems, Data Engineering, Cloud Technologies, Edge and Fog Computing, Computer Graphics, Animation, Augmented and Virtual Reality, Data Visualisation, Computer Vision, Human Machine Interface, Information Retrieval, Artificial Intelligence, and Machine Learning, Natural Language Understanding, DNA Computing, Software Systems, and Engineering, Programming Languages and Compilers, Social and Complex Networks, Autonomous Systems, High-Performance Computing, Parallel Programming, GPU Programming, Distributed Systems, OS and Networking, 5G and 5G+ Systems, Sensors, and IoT.

About IIT Jodhpur: IITJ has a sprawling campus of over 850+ acres with 2600 students and 220+ faculty members. The department of CSE coordinates the BTech, MTech, and MTech-PhD programs in CSE and AI, along with Ph.D. in CSE. More details about the department can be found at <https://cse.iitj.ac.in/>. The

institute also houses the Technology and Innovation Hub on CV, AR, and VR and recently launched AIDE school (<http://aide.iitj.ac.in/>).

We offer salaries and benefits as per the norms of the central government. Benefits include relocation expenses, maternity/paternity leaves, a generous initiation grant, Ph.D. student support, on-campus housing (if available), access to on-campus medical facilities, access to on-campus sports facilities, etc. In case of any clarification, candidates may reach out to head_cse@iitj.ac.in. Interested candidates are encouraged to apply via https://oa.iitj.ac.in/OA_REC_Faculty/.

Iowa State University

Multiple Tenure Track Positions

The Department of Computer Science in the College of Liberal Arts and Sciences at Iowa State University seeks outstanding applicants for multiple tenure-track faculty positions at the rank of Assistant Professor. We are looking for candidates in all areas of Computer Science who complement and expand our current research strengths, including but not limited to, broad areas of artificial intelligence, computer vision, machine learning, and natural language processing, computer networks, computer security, embedded, real-time and autonomous systems, high-performance computing, mobile computing, and operating systems.

The Department of Computer Science resides in the College of Liberal Arts and Sciences offering B.S., M.S., and Ph.D.

degrees in Computer Science and a brand-new M.S. degree in Artificial Intelligence. The department is proud to be one of the founding departments for the B.S. in Software Engineering, B.S. in Data Science, Data Science Minor and Certificate along with the B.S. and Ph.D. degrees in Bioinformatics and Computational Biology. We are active in interdepartmental graduate programs in Bioinformatics and Computational Biology, Human-Computer Interactions, and Information Assurance.

The department participates in many interdisciplinary research collaborations, including partnerships with faculty in bio-sciences, mathematical sciences, and engineering. The Department of Computer Science has 37 faculty professionals, 684 B.S. students, 56 M.S. students, and 128 Ph.D. students. Most of the department's Ph.D. students are supported by research or teaching assistantships. We have strong research and educational programs in Algorithms and Complexity, Artificial Intelligence, Bioinformatics, and Computational Biology, Databases, Data Mining, Information Assurance, Programming Languages, Molecular Programming, Multimedia Systems, Networks, Operating Systems, Robotics, and Software Engineering.

The successful candidate will be responsible for developing and sustaining a strong research program; developing collaborative and interdisciplinary research; publishing in top venues; supervising outstanding graduate students; teaching undergraduate and graduate courses, and enhancing ISU through professional and institutional service. We are interested in

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exceptional candidates that can expand our research profile in new research areas.

We are seeking candidates who share in our mission of achieving excellence through diversity and inclusion. In the Department of Computer Science, and at the University as a whole, we translate the values of diversity and inclusion into action by seeking a diverse faculty and by seeking individuals who have experience working with diverse students, colleagues, staff, and constituents.

We are accepting applications starting July 16, 2021. To ensure full consideration of your application, please submit all materials no later than October 1, 2021.

To apply for these positions and for more information see <https://www.cs.iastate.edu/open-positions>. Please send an email to cs-search@iastate.edu with any questions.

Iowa State University is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, genetic information, national origin, marital status, disability, or protected veteran status and will not be discriminated against.

Lawrence Berkeley National Laboratory

Secure HPC Postdoctoral Scholar - 92835
Organization: CR-Computational Research

The Computational Research Division has an immediate opening for a Secure HPC

Postdoctoral Researcher to perform vital research and development in the area of the use of trusted execution environments (TEEs) in high-performance computing (HPC) domains. The goal of this work is to enable high-performance scientific computing of sensitive data without significantly compromising usability or performance. The work includes software development of and experimentation with security and privacy technologies critical to facilitate data collection and sharing. The goal of this position is to contribute to developing and implementing new trusted execution environment architectures and related low-level system software appropriate to the threat model and performance requirements of high-performance scientific computing.

To learn more and to apply please visit <http://50.73.55.13/counter.php?id=200685>

Lawrence Berkeley National Laboratory

Research Portfolio Development for Computational Biology Program - 92746

Organization: BS-BioSciences Area Office

The selected candidate will be a co-member of the Biosciences Strategic Programs Development Group (SPDG) and the Computing Sciences Area Office and will help establish new research programs at the intersection of Biosciences and Computing and identify strategic opportunities where both Areas can collaborate to increase scientific impact.

Please apply at <http://50.73.55.13/counter.php?id=199484>

Loyola University Chicago

*Instructor, Computer Science
(One year appointment)*

The Department of Computer Science at Loyola University Chicago (LUC) (www.cs.luc.edu) invites applications for a Temporary, One-Year Full-Time Instructor Appointment (non-renewable) for the academic year 2020-2021. Teaching responsibilities shall include a 4-4 teaching load. Candidate is expected to teach introductory courses in the undergraduate and graduate curricula including programming, Data structures, Algorithms, Discrete Structures, and other courses based on the candidate's expertise.

The candidate will have a Ph.D. degree in Computer Science or a closely related area. Candidates for the position must clearly demonstrate the potential for excellence in teaching and have a record of (or clear potential for) student mentorship. The candidate should be willing to support the mission of LUC and the goals of a Jesuit Catholic Education.

Candidates should submit a current Curriculum Vitae, a teaching statement, and a letter of interest to the position by visiting <https://www.careers.luc.edu/postings/16273>.

Applicants should also arrange for three recommendations from individuals prepared to speak to their professional qualifications for this position, especially in terms of scholarship, teaching,

Professional Opportunities

and mentorship, to be submitted electronically to the above website (letter writers will receive an electronic prompt from LUC).

Any questions or information may be directed to rgreen@luc.edu. Review of applications will begin immediately and continue until the position is filled.

LUC is an Equal Opportunity/Affirmative Action employer.

McGill University

Faculty Lecturer

The School of Computer Science at McGill University invites applications for an appointment as Faculty Lecturer. Candidates must have a graduate degree in Computer Science or related discipline and demonstrated excellence in teaching computer science at the university level.

The School is looking for candidates who are able to teach a wide range of 1st and 2nd-year computer science courses, and ideally, have expertise in systems (e.g., database systems and networks), algorithms, artificial intelligence, data science, or programming languages.

The selection process will begin by July 15, 2021, but we accept applications until the position is filled.

To apply, and for more information, submit your application here: <https://www.cs.mcgill.ca/employment/301/>

For more information, email:
facultylecturer.search@cs.mcgill.ca.

Commitment to Equity and Diversity:
McGill University is committed to equity and diversity within its community and values academic rigour and excellence. Canadians and permanent residents will be given priority.

Missouri State University

Coordinator, Residence Life Information Technology

The Coordinator, Residence Life Information Technology is responsible for establishing and maintaining the link between student academic learning needs and the technological services available in the residence halls, including overall supervision, operation, and management of the Residence Life, Housing and Dining Services' servers and network functions, web development, ResNET Help Desk services, and all computing support for residence hall students, Residence Life staff, graduate assistants, and student workers. The Coordinator, Residence Life Information Technology assists in budgeting and planning for current and future technology needs, performs systems and operations tasks on networked computer systems serving staff and residents, and supervises all ResNET staff.

Apply on our website: <https://jobs.missouristate.edu/postings/55502>



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

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

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

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

About the Opportunity: Northeastern University's Department of Electrical & Computer Engineering seeks outstanding candidates for the position of Assistant/associate/full teaching professor with a focus on Computer Engineering in the area of software engineering and programming structures. This is a full-time, benefits-eligible, Non-Tenure-Track position. Appointments are made on an annual 8-month basis, with salary commensurate with experience.

Responsibilities: The position of Assistant Teaching professor entails educational interaction with students in roles including, but not limited to, traditional instruction (lecture courses, lab courses), curriculum development, and student advising. The main responsibility of this position is teaching Computer Engineering classes. The annual teaching course load is six courses, with the potential for teaching more than one section of a course in the same semester, over Fall and Spring semesters. Courses may be at both the undergraduate and graduate levels.

Teaching professors are also encouraged to pursue scholarly research on both educational and pedagogical topics as well as in their technical area of expertise, and have the opportunity to supervise graduate students.

Qualifications: A PhD in Computer Engineering, Electrical Engineering, or Computer Science with a commitment to teaching excellence, is required by the appointment start date. Candidates should have expertise with a range of Computer Engineering subareas, which may include software engineering, programming structures, algorithms, embedded systems, digital logic design and computer architecture. Excellent written and oral communication skills are required.

Application should include a cover letter, CV, teaching statement, 3 references. A sample syllabus from a previously taught class is optional but recommended.

Salary Grade: FAC

Additional Information:

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.

Job link: <https://apptrkr.com/2296027>

Professional Opportunities

New Mexico State University

Assistant Professor

The Computer Science Department at New Mexico State University invites applications for a tenure-track position at the Assistant Professor level, with an appointment starting date negotiable. We are seeking strong candidates with research expertise that can effectively complement their search foci of the department. An earned Ph.D. degree in Computer Science or a closely related field is required at the time of appointment. Candidates with expertise focus in cybersecurity, networking, the internet of things, software security, computer security, and artificial intelligence are encouraged to apply. However, exceptional candidates with strong backgrounds in other areas of Computer Science will also be considered. Applications from women, members of traditionally underrepresented groups, and other individuals interested in contributing to the diversity and excellence of the academic community are strongly encouraged. Salary and start-up packages will be competitive.

<https://jobs.nmsu.edu/postings/41787>

Occidental College

Visiting Assistant Professor of Computer Science

Occidental College seeks applicants for a 1-year, full-time, in-person Visiting Assistant Professor who will teach 4 courses (a combined 3/3 load) during

the 2021 – 2022 academic year, starting in August 2021. There is the possibility for renewal in future years. Occidental College, located in Los Angeles, is a four-year liberal arts college that emphasizes interdisciplinary connections and community engagement.

The successful candidate will teach a computer organization course with labs (both semesters), an operating systems course, and an additional computer science course in an area of their choosing.

See the full job posting [here](#).

Ohio University

Postdoctoral Research Associate

The Postdoctoral Research Associate will conduct research and teaching in the areas of hardware security, System-on-Chips (SoCs), embedded systems, and trusted computing systems. Responsibilities associated with the position include research in the areas of trustworthy integrated circuit (IC) design, electronic design automation (EDA) for secure systems, hardware trojans, coarse-grain reconfigurable arrays (CGRA), implementing dynamic policies, software verification, and security assessment of embedded systems. Further, the candidate will also be responsible for writing high-quality research conference papers, journals and reports to document the outcomes of the funded grant. The candidate will also be responsible for developing curriculum and introductory courses in cybersecurity with hands-on exercises for K-12 teachers and undergraduates. Further, the successful candidate will also be responsible for

delivering short courses and undergraduate/graduate courses in cybersecurity. The candidate will support group work in the general area of security of embedded computing platforms and may exercise functional supervision over supporting undergraduate and graduate students.

For more information or to apply:
<https://www.ohiouniversityjobs.com/postings/36990>

Please apply by May 31st, 2021.

Oregon State University

College of Engineering

Multiple Faculty Positions In Computer Science

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

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Learning, Cybersecurity, Systems, and Theoretical Computer Science. Applicants should demonstrate a strong commitment and capacity to initiate newly funded research as well as to expand and complement existing research programs in the OSU College of Engineering and beyond. Furthermore, applicants should demonstrate a strong commitment to undergraduate and graduate teaching; some successful candidates may also have the opportunity to teach in the school's highly ranked online computer science program. Applicants are expected to mentor students and promote equitable outcomes among learners of diverse and underrepresented identity groups. Appointment is anticipated at the Assistant Professor rank, but candidates with exceptional qualifications may be considered for appointment at the rank of Associate or Full Professor. Applicants must hold a Ph.D. degree in Computer Science, Electrical and Computer Engineering, or a closely related discipline.

Oregon State University is located at the heart of Oregon's Willamette Valley and close to Portland's Silicon Forest with numerous collaboration opportunities. The School of EECS has 60 tenured/tenure-track faculty members and 435 graduate students (225 Ph.D. students). Among the faculty, we have two members of the National Academy of Engineering, 18 professional society (IEEE and ACM) Fellows, and 25 Young Investigator/CAREER Award recipients. Among our several areas of distinction is a widely recognized program in usability

engineering aimed at eliminating gender bias in software and promoting inclusive technology. We have recently launched Masters and Ph.D. degrees in Artificial Intelligence with the first cohort of students to start in the Fall of 2021. Many faculty members of the School of EECS are also active participants in the recently established Collaborative Robotics and Intelligent Systems (CoRIS) Institute and the Pervasive Personalized Intelligence Center.

Corvallis has been ranked #1 on a list of "Best Places for Work-Life Balance", and is within easy reach of Portland, Eugene, the Cascade mountain range, and the Oregon Coast. Oregon State University has a strong institutional commitment to diversity and multiculturalism and provides a welcoming atmosphere with unique professional opportunities for leaders from underrepresented groups. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who share our vision of an inclusive community. The College of Engineering ranks high nationally in terms of the percentage of women faculty, and the university actively supports dual-career opportunities.

Apply online at <https://jobs.oregonstate.edu/postings/96527> (**posting #P04080UF**) with the following documents: A letter of interest; vita; a two-page statement of research interests;

a one-page statement of teaching interests; a one-page statement on the candidate's experiences with and future plans towards equity and inclusion; and names and contact information for at least three references.

Review of applications will continue up until **August 31, 2021**.

Peking University

Faculty Positions

The Department of Computer Science at Peking University is seeking candidates for all levels of tenure-track and tenured positions in any area of computer science. The positions will start in January 2022, or on a mutually agreed date thereafter. Faculty duties include teaching at the undergraduate and graduate levels, and supervision of student research. Candidates should hold a Ph.D. in computer science or a related field by the start of employment.

The Computer Science Department at Peking University was established in 1978, is known worldwide for our broad view of computer science and acting quickly to explore new interdisciplinary directions. Peking University is ranked #14 worldwide from 2017 to 2021 according to CSRankings and top 20 in 2021 QS World University Rankings.

The selected faculty applicants will be invited for on-site/remote interviews (depending on the epidemic situation) on Oct. 16-17, 2021.

Faculty applicants should email an application cover letter, curriculum

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vitae (including the contact information of 3 referees), a research statement (2-4 pages), a teaching statement (1-2 pages), and PDF files of 3 representative publications to Xiaokun Sun, sunxk@pku.edu.cn with title "Faculty Application to PKU CS".

Important dates for faculty applications:

- Application submission deadline:
Sept. 12, 2021
- Interview invitation notification:
Oct. 7, 2021
- Interview: Oct. 16-17, 2021

For updated information on faculty positions, please visit: http://cs.pku.edu.cn/English/Open_Position/Faculty.htm

Rensselaer Polytechnic Institute

Lecturer in Computer Science

The School of Science at Rensselaer Polytechnic Institute in Troy, NY invites applications for the position of Lecturer in the Department of Computer Science (<http://www.cs.rpi.edu>). Candidates must possess a terminal degree (Ph.D. or equivalent) and should have teaching expertise in both introductory courses and upper-level computer science electives. The initial appointment is for up to three (3) academic years, with the expectation of subsequent renewal. The successful candidate will have strong teaching, advising, and mentoring skills. The ideal candidate will be an individual with a comprehensive vision of computer science education, as well

as the skills needed to integrate into a multi-disciplinary department. Evidence of teaching effectiveness may include student evaluations, syllabi, and/or sample assignments. As Rensselaer approaches its 200th anniversary, come join our team as we guide a community of brilliant young undergraduate and graduate Computer Science students toward future technological leadership.

How to Apply:

Screening of applications will begin immediately and will continue until the position is filled. Qualified applicants must submit their applications through <https://careers.rpi.edu/en-us/job/492620/lecturer-sr-lecturer-professor-of-practice-school-of-science>

We welcome candidates who will bring diverse cultural, ethnic, national and international perspectives to Rensselaer's work and campus communities. Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity, Race/Gender/Veterans/Disability Employer.



Penn State

Assistant Research Professor

Penn State's Human Language Technologies Lab, directed by Dr. Shomir Wilson, seeks applications for an Assistant Research Professor on a project at the intersection of privacy, natural language processing, and computational social science. This is part of an NIH-funded effort to use transcripts of broadcast police communications to study adverse interactions between law enforcement officers and male minority youth. The hire will participate in all parts of the project but will focus on (1) identifying and mitigating privacy concerns presented by the dataset and (2) studying privacy-related aspects of broadcast police communications more broadly.

The Assistant Research Professor should possess a terminal degree or its equivalent in an academic field related to their research.

Please see the link to apply: <https://apptrkr.com/2263629>

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

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

Rollins College

Visiting Assistant Professor, Computer Science

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

A Ph.D. in computer science or a related area is preferred. Candidates with a

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Master's degree may be considered for a Visiting Lecturer position.

Our dynamic department is looking for a colleague who is excited about teaching and mentoring in a growing program at a liberal arts college. The successful applicant should be able to teach a variety of computer science courses and passionate about encouraging students of all backgrounds to pursue computer science. In addition to the traditional disciplinary scholarship, our department values community-engaged projects and research that advances CS education.

Rollins College is a comprehensive liberal arts college located just north of Orlando, FL, a diverse metropolitan community with a thriving economic and cultural scene.

Special Instructions to Applicants:

<https://jobs.rollins.edu/en-us/job/493173/visiting-assistant-professor-computer-science>

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

- Letter of interest
- Curriculum vitae
- Statement on teaching philosophy
- Provide three reference names and email addresses on application.

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

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

Through its mission, Rollins College is firmly committed to creating a just community that embraces multiculturalism; persons from historically under-represented minority groups are therefore encouraged to apply. Rollins does not discriminate on the basis of sex, disability, race, age, religion, color, national or ethnic origin, ancestry, marital status, veteran status, sexual orientation, gender identity, gender expression, genetic information, physical characteristics, or any other category protected by federal, state, or local law, in its educational programs and activities.

(WAIC) in July 2020 and positioned as a national-level new-type research institute. Our vision is to build a world-class AI laboratory, with pioneering contributions to original theories and key technologies. By gathering top talents from around the world and creating a stimulating and collaborative research environment, the Laboratory aims to conduct original and influential research, make fundamental contributions to basic theories, significantly advance the state of the art, and create a remarkable impact on the industry, healthcare, and education.

Led by Professor Xiaou Tang, Professor Andrew Yao (Academician of CAS), Prof. Jie Chen (Academician of CAE), and other world-renowned scholars in AI, the Shanghai AI Laboratory has established strategic cooperation with Shanghai Jiaotong University, Fudan University, Zhejiang University, the Chinese University of Hong Kong, and other famous universities at home and abroad.

Location:

Shanghai, China

Application:

Please submit your application as a complete package, including all documents, in PDF format to hr@pjlab.org.cn.

More info:

<https://www.shlab.org.cn>

Professional Opportunities

Shanghai Jiao Tong University

Assistant/Associate Professor

The John Hopcroft Center for Computer Science at Shanghai Jiao Tong University (SJTU) is seeking to fill several tenure-track positions in computer science at the rank of Assistant Professor and above.

Please refer to <https://jhc.sjtu.edu.cn/about/job/faculty-opening/2021/0406/3.html> for more information.

Southwestern University

Assistant Professor of Computer Science - Tenure Track

The Department of Mathematics and Computer Science at Southwestern University invites applications for a tenure-track Assistant Professor position in Computer Science beginning August 2022. Candidates must possess a Ph.D. in Computer Science or a related field. ABD candidates will be considered but the degree must be completed by August 14, 2022. Successful applicants will demonstrate a commitment to pursuing excellence in teaching a broad range of computer science courses (five courses per year) and a willingness to foster undergraduate research. Faculty are also expected to maintain a research program that results in peer-reviewed professional achievement, participate actively in university service, participate conscientiously in academic advising and retention initiatives, and exhibit a dedication to equity and inclusiveness. In line with Southwestern University's

commitment to diversity, the department is especially interested in attracting candidates from underrepresented groups and/or those with a demonstrated commitment to enhancing diversity, equity, and inclusion in STEM.

For more information visit [apply.interfolio.com/89764](#).

EOE/M/F

Stellenbosch University

Chief Director: Information Technology

(Ref. IT/135/0521)

Stellenbosch University (SU) is a research-intensive university where we attract outstanding students, employ talented staff and provide a world-class environment; a place connected to the world, while enriching and transforming local, continental and global communities. Stellenbosch University's strategic positioning for the 21st century is articulated in the Vision 2040 and Strategic Framework 2019-2024 (see: [http://www.sun.ac.za/english/about-us/strategic-documents](http://www.sun.ac.za/english/about-us стратегични документи)).

The Information Technology Division is responsible for the effective employment of information and communication technology (ICT) and systems in support of teaching and learning, research, community outreach and management functions at Stellenbosch University.

Reporting directly to the Chief Operating Officer (COO), the Chief Director: Information Technology is a member of the SU management team

specifically responsible for, inter alia, providing vision and leadership for the development, integration and implementation of all information and communications technology (ICT) initiatives for the University.

Duties:

The position provides strategic informational and technical leadership to the University, in collaboration with other support divisions, enabling the University staff and students through innovative application of information and communication technologies in digitalised higher education context.

- Oversee institution-wide ICT operations, and report to the institutional management and governance structures and manage the IT Division with its large staff complement;
- Alignment of SU's ICT policies, regulations and practices with the relevant national and international best practice and evidence;
- Identifying, developing and implementing appropriate ICT frameworks, standards, best practices in the ICT and HE sectors, policies and regulations;
- Oversee the development and management of technology policies and procedures to comply with legislation in respect of data management;
- Operational and tactical planning and management to ensure effective and efficient delivery of ICT services, for information systems related to human resource management, financial management, student information management, research information

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- management, learning and teaching management, enterprise content management, facilities management, access control and various electronic communication facilities, i.e., communication networks, data centres and cloud platforms;
- Planning, implementing and maintaining standard industry practices, such as ICT Architecture, ICT Service Management, ICT Programme and Project Management, IAM and ICT Security Management, ICT Risk Management, Business Analysis, ICT Infrastructure change management, Information Systems life-cycle management; ICT Business Resources Management;
 - Operational, tactical, and strategic planning and management of cybersecurity, including cyber risk assessment and mitigation, acquiring and sharing of threat intelligence, and disaster preparedness and recovery;
 - Oversee long-term operating strategy for the IT Division in support of effective and efficient service delivery;
 - Operational and financial management and responsibility for cost-effectiveness;
 - Maintain and develop a professional ICT support staff complement to enhance SU's effective employment of ICT systems;
 - ICT-related project management support across the University;
 - Represent the University at appropriate internal and external forums.

Requirements:

- A relevant Master's degree;

- At least 10 years' relevant experience in an ICT environment;
- At least 5 years' experience in ICT systems management at a senior level, including responsibility for cybersecurity;
- Familiar with modern aspects of computing, including high-performance computing, cloud and hybrid, hyper-converged computing, and software-defined infrastructure;
- Working knowledge of business intelligence and analytics, Agile and DevOps methodologies
- The ability to develop and maintain a future-orientated innovative strategy for the provision of an enabling, stable and reliable information technology services platform;
- Proven capacity to provide dynamic and strategic leadership in the areas of responsibility, including strategic planning and implementing abilities, human resource management, the management of change, risk, budgets and operational plans;
- Excellent communications skills;
- Sound interpersonal relations and ability to take the lead within a team;
- The ability to function effectively within a multilingual and multicultural environment;
- Proven track record of problem-solving and innovation.

As part of the interview process, shortlisted candidates could be expected to perform an assessment test, including a short presentation, based on the requirements as set out in the advertisement.

Recommendations:

- An MBA or PhD qualification with a strong ICT strategic vision;
- Experience at senior management level in a higher education environment;
- High-level project management capability;
- Skills to facilitate diverse knowledge and information management projects and technologies;
- Knowledge and understanding of general sectoral drivers affecting higher education;
- Proven knowledge and experience in scenario or strategic planning, in complex and diverse knowledge and information management environments, including systems thinking abilities;
- Experience in teaching and learning support platforms/systems in higher education.

Term of Office: The term of the appointment is normally five (5) years. Possible reappointment for subsequent terms.

Commencement of duties: 1 January 2022 or as soon as possible thereafter

Closing date: 2 July 2021

Enquiries: Ms. O Boesak on 021 808 9328, or at oliviab@sun.ac.za

Completed applications, comprising the documentation as set out below, must be sent via email to adsmanager@sun.ac.za before the closing date. Incomplete applications will not be considered.

Documentation details (PLEASE ENSURE THAT YOUR APPLICATION INCLUDES ALL OF THE DOCUMENTS LISTED BELOW):

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COMPUTER SCIENCE TENURE TRACK 2022-23

The Department of Mathematics, Statistics, and Computer Science at St. Olaf College invites applications for a full-time, tenure track position in Computer Science at the Assistant or Associate Professor level to begin August 2022.

We are looking for candidates who have a Ph.D. in Computer Science, or a closely related field, who can contribute broadly to our growing computer science program through teaching, research and supervision of undergraduate research. We will consider all areas of specialization, especially those that do not duplicate current faculty expertise in robotics, multi-agent systems, graphics, and computer vision. We expect that the successful candidate will also provide leadership in the program and a vision for the future as computer science continues to grow at St Olaf.

The department is particularly interested in applicants who can and will advance the college's goals for diversity, equity and inclusion. We request that in the letter of application, candidates address their potential to contribute to the St. Olaf community that maintains a diversity of people and perspectives as one of its core values. We strongly encourage applications from Black, Indigenous, and people of color and members of other underrepresented groups in accordance with our equity goals.

Position description and further details online at
<https://stolaf.hiretouch.com/faculty-postings>

- A comprehensive Curriculum Vitae;
- Your vision for ICT at SU and your contribution to such a future in the context of the Stellenbosch University's Vision 2040 and Strategic Framework 2019-2024;
- Details regarding present occupation, remuneration package and citizenship;
- An indication of the earliest date on which duties can be assumed;
- Certified copies of certificates;
- Details of at least three referees.

The University is committed to employment equity (EE). In accordance with SU's institutional EE plan and the EE Plan for the specific environment, persons from designated groups will receive preference over foreign nationals where EE targets are a factor, and where EE targets are not a factor, South African citizens will receive preference over foreign nationals. 'Designated groups' refers to women, people with disabilities and black people (i.e. black African, Coloured, Indian and Asian) who are natural persons and citizens of the Republic of South Africa by birth or descent; or who are citizens of the Republic of South Africa by naturalisation that occurred before the commencement date of the Constitution of the Republic of South Africa, 1996 (i.e. 4 February 1997); or who became citizens of the Republic of South Africa on the commencement date of the Constitution, but who would have been entitled to acquire citizenship by naturalisation.

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The University reserves the right not to make an appointment.

At the discretion of the Selection Committee, candidates may be subjected to appropriate psychometric testing and other selection instruments and should therefore be willing to oblige.

The University reserves the right to investigate qualifications and conduct background checks on all candidates.

The University reserves the right to extend the closing date if deemed appropriate.

Texas A&M University

Lecturer of Statistics

The Department of Statistics at Texas A&M University invites applications for one Academic Professional Track faculty position for an appointment of Lecturer in Statistics. This appointment will be non-tenure-track and will begin on August 1, 2021. Duties and responsibilities include teaching 3-4 undergraduate courses (per semester) or possibly higher-level courses depending on the applicant's qualifications. This is a full-time position with a 9-month faculty appointment.

The successful applicants should have a doctorate in statistics or a related field and previous experience in teaching at the undergraduate level is required. Candidates with an MS in statistics and more than 2 years of teaching experience will also be considered. Interested applicants should send a current cv, a teaching statement, a summary

of teaching experience and three professional references.

To apply, please visit <https://apply.interfolio.com/86866>.

Review of applicants will begin immediately. For questions, email inquiries to Dr. Alan Dabney, Search Committee Chair, at hiring@stat.tamu.edu.

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

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

University of Arizona

PostDoc in Computer Security Education

We are looking for a PostDoctoral researcher to run the project "LIGERLabs: Educational Modules for (Anti) Reverse Engineering". The goal of the project is to build lectures, tools, and exercises to improve students' abilities in Reverse Engineering and Anti-Reverse Engineering.

To apply, see <https://arizona.csod.com/ux/ats/careersite/4/home/requisition/5098?c=arizona>

University of California - San Diego

Educational Research/Teaching PostDoc

The University of California, San Diego Computer Science and Engineering Department seeks applications for a "researcher-teacher" Postdoctoral Scholar position with an emphasis on teaching and educational research. We seek candidates who are interested in obtaining a faculty position that values teaching as well as education scholarship. The goals for this postdoctoral position are for the scholar to: (1) build their teaching portfolio in large classes, giving them the teaching experience that will make them competitive for a teaching faculty position, (2) develop pedagogical skills and pedagogical content knowledge required of an exceptional educator, (3) gain independence as an education researcher, and (4) learn to navigate the politics and structures of being a teaching faculty member at a research-focused university.

Responsibilities:

The postdoctoral scholar will teach three quarter-long courses over a single academic year (Fall, Winter and Spring quarters). The timing and course assignments will be determined in consultation with the candidate taking into consideration the department's needs for the 2021-2022 academic year and the candidate's interests and background.

The postdoctoral scholar will also do research on the NSF-funded project "Equity of Access to Computer Science:

Professional Opportunities

Factors Impacting the Characteristics and Success of Undergraduate CS Majors,” a data-driven project to examine CS undergraduate student pathways and barriers across four colleges and universities in Southern California. The scholar will help lead quantitative modeling of students’ educational trajectories and qualitative focus-group-based research, under the guidance and training of the PIs on the project where appropriate.

Required qualifications:

Applicants must have an expectation of completing a PhD in computer science (including CS education) or a related area by August 1, 2021. Applicants must have prior teaching experience as a TA or lead instructor. Applicants must have experience with quantitative analysis or modeling, or qualitative research with human subjects or both. Education research experience is preferred, but not required.

Terms:

The initial appointment is for a one-year term from August 2021-July 2022. The annual salary will be \$61,000, though may be higher based on prior experience. Reappointment for a second year is possible upon the agreement of both parties.

Timeline:

We encourage candidates to send applications as soon as possible. Review will continue until the position is filled.

To apply, please email the following materials to Christine Alvarado (cjalvarado@eng.ucsd.edu) with the subject line “CS Ed Postdoc Application”:

- Cover letter
- CV
- Research Statement
- Teaching Statement
- Names and emails of three references who are willing to be contacted. You do not need to send letters.

If you have any questions, please contact Christine Alvarado at cjalvarado@eng.ucsd.edu.

courses across three academic quarters of the year (Autumn, Winter, Spring).

The Masters Program in Computer Science offers a comprehensive and professionally oriented computer science education that combines the foundations of computer science with the applied and in-demand skills necessary for careers in technology. Our rigorous curriculum covers theory, programming, and applications and is targeted for students interested in tech careers in Software Engineering, Data Analytics, Product Management and Application Development.

Courses are held for nine weeks during each academic quarter, with the tenth week for a final project or exam. Instruction is expected to be primarily in person, but maybe remote due to the University’s COVID-19-related health and safety protocols and associated requirements (once in-person instruction becomes the default mode of instruction, some classes may continue to use a remote or hybrid format).

The person holding this position must be able to teach at least two of the following courses: Introduction to Computer Systems, Advanced Computer Systems, Networks, Operating Systems, Distributed Systems, Parallel Programming, Compilers, Computer Architecture, Introduction to Computer Security, or Functional Programming. Syllabi for past offerings of these classes can be found at <https://mpcs-courses.cs.uchicago.edu>. Depending on the applicant’s background and interests, the person holding this position may also be asked to teach other classes in the MPSCS.

University of Chicago

Teaching Positions in Systems

The Masters Program in Computer Science (MPSCS) in the Department of Computer Science at the University of Chicago invites applications for all ranks of the Clinical appointment (Assistant Clinical Professor of Computer Science, Associate Clinical Professor of Computer Science, and Clinical Professor of Computer Science) in the field of Computer Systems. The “Clinical” appointment is a full-time teaching-track position used in professionally-oriented programs at the University of Chicago. It is unrelated to clinics in a medical sense.

This full-time, benefits-eligible appointment is for an initial three-year term, with the possibility of renewal. This is a teaching position with no research responsibilities, and a teaching load of six

Professional Opportunities

For each clinical position/rank, applicants should have one of the following: a doctorate in Computer Science or a related field at the time of appointment; a masters degree and 4 years of relevant professional experience; or a bachelor's degree and 8 years of relevant professional experience. Work experience in a computing-related industry is preferred. In addition, each rank has the following requirements:

For the Assistant Clinical Professor of Computer Science position we require teaching experience in Computer Science or a related field at the undergraduate or graduate level, as either an instructor of record or a teaching assistant.

For the Associate Clinical Professor of Computer Science position, candidates must have been the instructor of record in at least 1800 units of undergraduate and/or graduate course offerings in Computer Science or a related field over the span of at least six calendar years. 1800 units is typically equivalent to 18 quarter-long course offerings, or 12 semester-long course offerings. See <https://registrar.uchicago.edu/records/transcripts/transcript-key/credit-conversion-chart-equivalencies/> for equivalencies between teaching units and semester/quarter hours.

For the Clinical Professor of Computer Science position, candidates must have been the instructor of record in at least 3000 units of undergraduate and/or graduate course offerings in Computer Science or a related field over the span of at least 10 calendar years; 3000 units

is typically equivalent to 30 quarter-long course offerings, or 20 semester-long course offerings. See <https://registrar.uchicago.edu/records/transcripts/transcript-key/credit-conversion-chart-equivalencies/> for equivalencies between teaching units and semester/quarter hours.

Applications must be submitted online through the University of Chicago's Interfolio website:

Assistant Clinical Professor:
apply.interfolio.com/89795

Associate Clinical Professor:
apply.interfolio.com/89798

Clinical Professor:
apply.interfolio.com/89802

Review of applications will begin on August 5, 2021, and will continue until the position is filled.

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

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

origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination. (https://www.uchicago.edu/about/non_discrimination_statement/)

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

University of Chicago

Teaching Positions in Software Engineering

The Masters Program in Computer Science (MPCS) in the Department of Computer Science at the University of Chicago invites applications for all ranks of the Clinical appointment (Assistant Clinical Professor of Computer Science, Associate Clinical Professor of Computer Science, and Clinical Professor of Computer Science) in the field of Software Engineering. The "Clinical" appointment is a full-time teaching-track position used in professionally-oriented programs at the University of Chicago. It is unrelated to clinics in a medical sense.

This full-time, benefits-eligible appointment is for an initial three-year term, with the possibility of renewal. This is a teaching position with no research responsibilities, and a teaching load of six courses across three academic quarters of the year (Autumn, Winter, Spring).

Professional Opportunities

The Masters Program in Computer Science offers a comprehensive and professionally oriented computer science education that combines the foundations of computer science with the applied and in-demand skills necessary for careers in technology. Our rigorous curriculum covers theory, programming, and applications and is targeted for students interested in tech careers in Software Engineering, Data Analytics, Product Management and Application Development.

Courses are held for nine weeks during each academic quarter, with the tenth week for a final project or exam. Instruction is expected to be primarily in person, but maybe remote due to the University's COVID-19-related health and safety protocols and associated requirements (once in-person instruction becomes the default mode of instruction, some classes may continue to use a remote or hybrid format).

The person holding this position must be able to teach at least two of the following courses: Introduction to Software Engineering, Applied Software Engineering, Product Management, Object-Oriented Programming, OO Architecture: Patterns, Technologies, Implementations, Topics in Software Engineering, and User Interface and User Experience Design. Syllabi for past offerings of these classes can be found at <https://mpcs-courses.cs.uchicago.edu>. Depending on the applicant's background and interests, the person holding this position may also be asked to teach other classes in the MPCS.

For each clinical position/rank, applicants should have one of the following:

doctorate in Computer Science or a related field at the time of appointment; a masters degree and 4 years of relevant professional experience; or a bachelor's degree and 8 years of relevant professional experience. Work experience in a computing-related industry is preferred. In addition, each rank has the following requirements:

For the Assistant Clinical Professor of Computer Science position we require teaching experience in Computer Science or a related field at the undergraduate or graduate level, as either an instructor of record or a teaching assistant.

For the Associate Clinical Professor of Computer Science position, candidates must have been the instructor of record in at least 1800 units of undergraduate and/or graduate course offerings in Computer Science or a related field over the span of at least six calendar years. 1800 units is typically equivalent to 18 quarter-long course offerings, or 12 semester-long course offerings. See <https://registrar.uchicago.edu/records/transcripts/transcript-key/credit-conversion-chart-equivalencies> for equivalencies between teaching units and semester/quarter hours.

For the Clinical Professor of Computer Science position, candidates must have been the instructor of record in at least 3000 units of undergraduate and/or graduate course offerings in Computer Science or a related field over the span of at least 10 calendar years; 3000 units is typically equivalent to 30 quarter-long course offerings, or 20 semester-long

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

Applications must be submitted online through the University of Chicago's Interfolio website:

Assistant Clinical Professor:
apply.interfolio.com/89803

Associate Clinical Professor:
apply.interfolio.com/89807

Clinical Professor:
apply.interfolio.com/89808

Review of applications will begin on August 5, 2021, and will continue until the position is filled.

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

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

Professional Opportunities

genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination (https://www.uchicago.edu/about/non-discrimination_statement/)

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

University of Colorado Denver

Clinical Teaching Track Assistant Professor or Instructor

The Department of Computer Science and Engineering in the College of Engineering, Design and Computing at the University of Colorado Denver invites applications for a non-tenure-track faculty position at the level of Instructor, Senior Instructor or Assistant Professor (open rank), Clinical Teaching Track. This position will be responsible for developing courses for the new Bachelor of Arts in Computer Science to grow the curriculum.

The salary range for this position has been established at:

- Instructor CTT: \$60,000-\$80,000
- Senior Instructor CTT: \$60,000-\$80,000
- Assistant Professor CTT: \$70,000-\$100,000

For full details and to apply, visit <https://cu.taleo.net/careersection/2/jobdetail.ftl?job=21386&lang=en>

The University of Colorado Denver | Anschutz Medical Campus is committed to recruiting and supporting a diverse student body, faculty, and administrative staff. The university strives to promote a culture of inclusiveness, respect, communication, and understanding. We encourage applications from women, ethnic minorities, persons with disabilities, and all veterans. The University of Colorado is committed to diversity and equality in education and employment.

have the seats they need in high-quality courses to complete their UF Bachelor's degree in accordance with UF policies. To be successful, this Lecturer will serve as a liaison between the Chair of the Department of CISE, UF Online, and the Center for Online Innovation and Production (COIP). The candidate will have the opportunity to participate in department, university, and professional service activities. Candidates with experience or willingness to engage in activities that contribute to diversity and inclusion are especially encouraged to apply.

Job Qualifications

We seek outstanding candidates who have a Ph.D. in Computer & Information Sciences & Engineering or a closely related discipline. Applicants must have an outstanding record of academic and research accomplishments, a strong interest in undergraduate teaching in Computer & Information Sciences & Engineering, and a commitment to professional service (e.g., through participation in professional societies). The successful candidate will be expected to teach CISE undergraduate courses, collaborate with faculty in and outside the department, and be involved in service to the university and the profession. Candidates with a master's degree in a closely related field of engineering and industrial experience may also be considered.

Instructions

The search committee will begin reviewing applications as soon as possible and will continue to receive

University of Florida

Lecturer Computer & Information Sciences & Engineering (76514)

Description

The Herbert Wertheim College of Engineering at the University of Florida invites applications for a 12-month, non-tenure track, full-time, position at the rank of Lecturer (Working title of Assistant Instructional Professor) in the Department of Computer & Information Sciences & Engineering (CISE).

The appointment will serve as both an instructor and the UF Online coordinator in the CISE Department with a dual focus as (1) instructor, working across the department and with the department leadership to ensure the department delivers excellent courses for UF Online students, and as (2) coordinator, serving as the CISE Department UF Online coordinator and in doing so, maintaining an organized and strategic set of curricular offerings so that UF Online students

Professional Opportunities

applications until the position is filled. You must apply by submitting an application through Interfolio via <https://facultyjobs.hr.ufl.edu/>. (Job 76514) The application with attached PDF files of the following required documents: (1) a letter of interest, (2) a detailed curriculum vitae, (3) a statement of teaching philosophy and interests in teaching existing courses and developing new online courses at the undergraduate level, (4) a statement describing interest and experience in working with diverse groups and underrepresented populations, and (5) contact information of three or more references.

Final candidate will be required to provide an 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 the 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 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 Georgia

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

The candidate will join Sensorweb Research Laboratory to create innovative IoT/CPS time-series data analytics methodologies and systems for health and security monitoring applications. The key qualifications include: strong data analytics skills with advanced signal processing, machine learning and deep learning of time-series data; experience with Python, InfluxDB, Grafana, Linux and IoT platforms such as Raspberry PI is a plus.

Please submit applications at:
<https://www.ugajobsearch.com/postings/204848>

The University of Hong Kong

Tenure Track Faculty Position - Associate / Assistant Professor of Computer Science

Applications are invited for Associate Professor / Assistant Professor, full-time positions tenable from 1 July 2022. Applicants should have a Ph.D. degree in Computer Science, Computer Engineering, or a related field, with a strong commitment to research and teaching. A solid track record in research is essential. The position is open to all research areas in Computer Science, with preference given to candidates in the field of AI, Big Data Analytics, Computational Models/Algorithms related to Financial Technology, and Quantum Computing and Quantum Machine Learning.

More information can be found at:
<https://jobs.hku.hk/en/job/504599/tenuretrack-associate-professorassistant-professor-several-posts>

University of Illinois System - Chicago

Discovery Partners Institute

Research Scientist/Senior Research Scientist

The Discovery Partners Institute (DPI) empowers people to jumpstart their tech careers or companies in Chicago. Led by the University of Illinois System in partnership with some of the world's top research institutions, DPI does three things centered around economic

Professional Opportunities

development: tech talent development for high-demand tech jobs; applied research and development; and building a stronger tech ecosystem. DPI prepares students and workers to step into high-demand tech jobs. It also builds research teams and matches them with new funding. With state investment and a new innovation district in development, DPI has the resources to attract, develop and leverage the most ambitious people and companies the region has to offer - and keep them here.

DPI invites nominations and applications for Research Scientists and Senior Research Scientists. These roles offer an extraordinary opportunity to help shape and drive one of DPI core missions: Research & Development. These positions bring together research initiatives by coalescing teams of faculty and scientists across institutions and disciplines. Research Scientists are principal contributors in developing specific research project requirements and are responsible for all aspects of the project from conception to finding funding through execution.

Research Scientists must demonstrate leadership, for example, as principal investigator, as head of a defined research project, or as key interstitial members of research teams. They must provide overall program/project leadership and management, conduct and publish self-initiated research, conduct research across programs or projects, train and manage other researchers or staff, and participate in long-range research planning. Research Scientists

are expected to work closely with both our internal R&D team members as well as the external members of our Science Teams. DPI is especially interested in supporting research that is relevant or provides economic benefit to the state of Illinois and has commercialization potential. Experience in commercialization is preferred.

Candidates must possess a Ph.D. degree in a computing-relevant field with a Minimum of four years of experience in managing a research program or team. (Seven years required for the Senior Research Scientist title). For the full position description and requirements, see the website below.

This is a full-time, 12-month Academic Professional position. For full consideration, candidates must apply and submit a letter of application, resume, and names/addresses/phone numbers of three professional references by **July 14, 2021** at <https://uajobs.hr.uillinois.edu/>.

The System Office conducts background checks on all job candidates upon acceptance of a contingent offer of employment. Background checks will be performed in compliance with the Fair Credit Reporting Act. 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>

System Human Resource Services
(312) 996-5130
erhr@uillinois.edu

The System Office is an affirmative action/equal opportunity employer dedicated to building a community of excellence, equity and diversity. The System Offices welcome applications from women, underrepresented minorities, individuals with disabilities, protected veterans, sexual minority groups and other candidates who will lead and contribute to the diversification and enrichment of ideas and perspectives.

University of Manitoba - Winnipeg

Manitoba, Canada

*Department of Computer Science
Faculty of Science*

*Assistant, Associate, or Professor
in Computational Cognition -
Position #30384*

The Department of Computer Science invites applications for one or more full-time tenured or tenure-track positions at the Assistant, Associate, or Professor level, commencing July 1, 2022, or on a date mutually agreed upon. The Department seeks an emerging scholar with a commitment to excellence in teaching and research. Exceptional candidates at any level will also be considered. Candidates will complement or extend the Faculty's strengths in machine learning, artificial intelligence, human-computer interaction, cognitive science, neuroscience and related areas.

Professional Opportunities

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

To enrich our Department and create role models for a diverse population of students, we particularly invite application from those who can support and enhance our diversity, including women, Indigenous Peoples, persons with disabilities and racialized persons, and those committed to a diverse environment.

The Department currently has 22 full-time tenured and tenure track faculty members and 9 Instructors, and offers a full range of both undergraduate and graduate programs in Computer Science. Further information about the Department can be

obtained from www.sci.umanitoba.ca/cs. Winnipeg is the largest city in the Province of Manitoba. The city has a rich cultural environment, including symphony, opera, dance, theatre, and ethnic festivals. The region provides ample opportunities for outdoor recreation in all seasons. Learn more about Winnipeg at winnipeg.ca.

The University of Manitoba is strongly committed to equity and diversity within its community and especially welcomes applications from women, racialized persons, Indigenous peoples, persons with disabilities, persons of all sexual and gender identities, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

If you require accommodation supports during the recruitment process, please contact UM.Accommodation@umanitoba.ca or 204-474-7195. Please note this contact information is for accommodation reasons only.

Applications including a curriculum vitae, a description of teaching philosophy, a summary of research interests, a three-page research plan and contact information for three references should be sent to search@cs.umanitoba.ca (PDF files preferred). Please ensure to specify position number 30384 in the application. For further information contact the Search Committee Chair at search@cs.umanitoba.ca.

The closing date for receipt of applications is August 25, 2021.

Application materials, including letters of reference, will be handled in accordance with the Freedom of Information and Protection of Privacy Act. Please note that curricula vitae may be provided to participating members of the search process.

University of Maryland, Baltimore County

*College of Engineering and
Information Technology*

Department of Information Systems

*Professor of the Practice/Lecturer
and Graduate Program Director for
Master's in Professional Studies in
Software Engineering*

The Department of Information Systems (IS) of the University of Maryland Baltimore County (UMBC) invites applications for a 12-month, Full Time, Non-tenure track Professor of the Practice or Lecturer position.

RESPONSIBILITIES: Reporting to the Chair of the Department of Information Systems, this position serves as the Graduate Program Director of UMBC's program leading to a Master of Professional Studies (MPS) degree in Software Engineering. This program is offered to professional students through a partnership between the Information Systems department (IS), the Computer Science and Electrical Engineering department (CSEE) and UMBC's Division of Professional Studies (DPS).

Professional Opportunities

The candidate is expected to teach two courses per semester in the program. In addition, by closely working with the Department committees and faculty, the candidate will be expected to: participate in the curriculum design and instruction; recruit and supervise qualified part-time faculty; collaborate with DPS on administrative tasks such as program marketing, student recruitment and retention activities; pursue business development opportunities with industry; manage UMBC's Software Engineering Advisory Board; and carry out the administrative duties associated with academic program oversight. The candidate is expected to attend all departmental meetings at UMBC. The candidate will be expected to work primarily on campus at UMBC.

MINIMUM QUALIFICATIONS: Requires a doctoral degree in any of the following: information systems, computer science, software engineering or other related areas. Applicants are expected to have at least five years of relevant experience, to include both professional experiences and/or teaching experience in any setting. Experience with industry-oriented graduate programs is preferred.

COMPENSATION: Salary is commensurate with qualifications and experience. UMBC's benefits package would also be offered.

APPLICATION: Please submit a cover letter, a professional resume, a brief statement of teaching experience and philosophy, a statement of contributions to diversity, equity and inclusion, and names of at least three professional or academic

references (letters will be required later for short-listed candidates) via Interfolio at <https://apply.interfolio.com/87085>. Document review and selection of candidates will start immediately. Full consideration will be given to applications received by June 15, 2021. The position will remain open until filled. The expected start date is August 2021. Emailed applications will not be accepted. Inquiries can be directed to the Search Committee Chair at gpdsearch@umbc.edu.

ABOUT THE IS AND CSEE DEPARTMENTS: The IS department is in the College of Engineering and Information Technology at UMBC. The IS department is proud to support a diverse student and faculty body in terms of gender, race, and ethnicity. The IS faculty has a culture of inclusive excellence, demonstrated by academic research projects, such as community-engaged scholarship, research on improving accessibility of technology to disabled people, as well as efforts to address diversity issues in STEM such as participation in CWIT's programs and initiation of a regional chapter of Women in Data Science and Machine Learning. More than half of the leadership positions in the department, including the chair, are currently held by women faculty.

The IS department houses 8 undergraduate and graduate programs with 1247 undergraduate students and 426 graduate students. We offer 2 undergraduate majors in Information Systems and Business Technology Administration, and 2 MS and PhD programs, in Information Systems and

Human-Centered Computing. We offer an innovative MS-Online program in Information Systems and a Master's of Professional Studies in Health Information Technology (HIT). Our research expenditure is \$2.2M. With 34 faculty members (24 tenure track and 10 teaching) our research portfolio spans five areas of research HCC, AI, DS, HIT and Software Engineering.

In particular, the IS department houses the Empirical and Applied Software Engineering Laboratory (EASEL), where faculty, students, and visiting researchers collaborate on research in software engineering, including software testing, maintenance and regulatory compliance of software systems. EASEL members manage a portfolio of funded research projects (from programs such as NSF SaTC) and publish their work regularly in top venues.

The CSEE department is in the College of Engineering and Information Technology at UMBC. The CSEE department is one of the largest on-campus and deeply values its mission of inclusive excellence in research and education. We have research-oriented programs in Computer Science (CS), Computer Engineering (CE), and Electrical Engineering (EE), Data Science, and Cybersecurity. The CSEE faculty (39 tenure-track, 17 teaching, and 17 research) enjoy collaboration, working across our specializations as well as with colleagues from other STEM, humanities, and the arts departments and external partners. Our research expenditures exceeded

\$7M in FY 20, and awards exceeded \$10M. The CSEE department has more

Professional Opportunities

than 2,100 undergraduate CS and CE majors and more than 775 graduate students, including many in the Professional programs in Data Science and Cybersecurity.

ABOUT UMBC: UMBC is a public research university that is leading the world in inclusive excellence in research and teaching. We are redefining how to teach, and we are one of the most innovative universities in the nation (US News). UMBC's strategic location in the Baltimore-Washington corridor puts us close to many high-tech companies as well. The 2018 Chronicle of Higher Education also named UMBC as one of the best colleges to work for, for the ninth year in a row. The department, college and UMBC are deeply committed to the success of all of our faculty. Faculty are supported by resources like the Faculty Development Center for pedagogical support and structured mentorship. The campus is close to both energetic urban centers and family-friendly suburbs. Nearby cities such as Columbia and Ellicott City have been routinely ranked as the top 10 best places to live in the US.

We especially welcome applications from candidates who are eager to contribute to the diversity mission of the university and the department. UMBC is a national model for diversity and inclusive excellence in STEM. Examples of these are our Meyerhoff Scholar programs (<http://meyerhoff.umbc.edu>), the Center for Women in Technology (<http://cwit.umbc.edu>), and PROMISE: Maryland's AGEP and LSAMP Bridge

to the Doctorate programs (<https://promiseagep.com>). Inclusive excellence is a hallmark of UMBC and a foundational value of our community. UMBC is the nation's #1 producer of African American undergraduates who go on to complete an M.D./Ph.D. and #2 nationally for African American undergraduates who complete a STEM Ph.D.

UMBC is an Equal Opportunity/Affirmative Action Employer and is a past recipient of a National Science Foundation ADVANCE award to promote hiring and advancement of women in science and engineering. We welcome applications from minoritized populations.

University of Michigan

Post-Doc in Natural Language Processing (NLP)

Position available immediately in the LAnguage Understanding and generatioN researCH (LAUNCH) group at the Artificial Intelligence Laboratory, CSE, U-M, Ann Arbor. Under the supervision of Dr. Lu Wang, PostDoc will have the opportunity to work on a wide variety of NLP topics including (but not limited to): language generation, summarization, sentiment analysis, argument mining, computational social science, dialogue analysis, representation learning, and multimodality.

Perform research, publish the results obtained, provide technical guidance on projects for graduate and undergraduate students, and assist in writing research proposals. Interested candidates should visit <https://web.eecs.umich.edu>.

edu/~wangluxy for more information on the research group and current projects.

Ph.D. in CS or related fields, with a demonstrated interest in NLP is required. Submit a statement of interest, CV, two representative publications, and two contacts (one is a PhD advisor) who can provide references for the applicant. Must possess valid work authorization and pass a background screening if selected. Salary range - \$65,000-\$75,000.

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

University of Missouri – Kansas City

Executive Director

NextGen Data Science and Analytics Innovation Center

The [University of Missouri - Kansas City \(UMKC\)](#) and the [University of Missouri \(MU\)](#) seek a **visionary, resourceful and passionate** leader to be the inaugural Executive Director of the [University of Missouri System](#)-wide NextGen Data Science and Analytics Innovation Center (dSAIC). Based at UMKC, dSAIC is designed as a leading-edge data analytics center that will bring revolutionary changes to industry. Key responsibilities and opportunities can be found by viewing the full position profile <https://umurl.us/dsaic-profile>.

In partnership with the [NextGen Precision Health Initiative](#), the Executive Director will inherit a tremendous opportunity and team of research

Professional Opportunities

collaborators across the *UM System*. Reporting to the *Chancellor of UMKC*, this individual will oversee primarily the ***non-health related*** portfolio of the dSAIC and will be responsible for the overall planning, function, and long-term support of the Center.

Applicant material should be received by **August 31, 2021**.

Nominations, applications and inquiries may be sent to Tim McIntosh at umhexecutivesearch@umsystem.edu

University of New Orleans

Assistant Professor Positions

The Department of Computer Science at the University of New Orleans invites applications for two tenure-track Assistant Professor positions starting in Spring 2022 or Fall 2022. Candidates with expertise in gaming, AR/VR, machine learning & AI, and big data are especially encouraged to apply. Preference will be given to candidates whose interests and expertise augment existing strengths and exceptional candidates in any relevant area will be given due consideration.

The department hosts two research centers – the UNO Cyber Center (UNOCC) and the Canizaro Livingston Gulf States Center for Environmental Informatics (GulfSCEI) – and places a strong emphasis on both research and teaching excellence. The city of New Orleans offers a rich and unique cultural experience and opportunities for non-traditional collaborations.

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

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

Interested applicants are invited to submit a resume, three recommendation letters, teaching, research and diversity statements to:

https://ulsuno.wdi.myworkdayjobs.com/en-US/UniversityOfNewOrleans/job/New-Orleans-La/Assistant-Professor_R-000186

Applications will be reviewed on a rolling basis until the positions are filled.

UNO is an Equal Employment Opportunity/Affirmative Action institution committed to excellence through diversity. UNO will not discriminate based upon race, ethnicity, color, sex, religion, national origin, age, disability, genetic information, sexual orientation, gender identity or expression, pregnancy, marital status, military or veteran status, or any other status or classification protected by federal, state, or local law. All eligible candidates are encouraged to apply.

University of North Texas

Visiting Clinical Assistant/Associate Professor

The University of North Texas (UNT), a Tier 1 Research Institution (Carnegie Classification as a Doctoral University: Highest Research Activity), invites applications for multiple non-tenure-track faculty positions in the Department of Computer Science and Engineering (CSE) starting Fall 2021.

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

Minimum qualifications include a Ph.D. in computer science or a closely related field, with a strong preference for evidence of teaching experience. Exceptions may be given to candidates with extensive computing industry experience.

This appointment is a non-tenurable appointment for an initial term of one year, with further renewal possible.

The Computer Science and Engineering department is home to 9 Professors, 11 Associate Professors, 7 Assistant Professors, 5 Lecturers, over 100 Ph.D. students, over 180 master students, and over 1300 bachelor students. We offer a

Professional Opportunities

Ph.D. degree in Computer Science and Engineering, M. S. degrees in Artificial Intelligence, Computer Engineering, Computer Science, Cybersecurity and Data Engineering, ABET-accredited B. S. degrees in Computer Science and Computer Engineering, an ABET-accredited B. A. degree in Information Technology, and a new B. S. degree in Cybersecurity. Additional information about the department is available at the website: computerscience.engineering.unt.edu.

Application Procedure:

All applicants must apply [online](#) at this link and may direct any questions to Dr. Pradhumna Shrestha (pradhumna.shrestha@unt.edu).

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

The University:

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

University of West Florida

Senior Faculty Member Department of Intelligent Systems and Robotics - I26910

The University of West Florida (UWF), Pensacola, FL, USA in partnership with the

Florida Institute for Human and Machine Cognition (IHMC) located in downtown Pensacola, FL developed a new Ph.D. program in intelligent systems and robotics (ISR). The program is the first of its kind in Florida and one of only a few in



Laboratory Technician I/II

Laboratory Technician I: \$6,389.07 - \$8,172.67 monthly

Laboratory Technician II: \$7,044.27 - \$9,023.73 monthly

This position is in the Laboratory Technician Series and is a critical need to meet compliance requirements related to plant treatment operations and source water monitoring. The incumbent in this position supports Valley Water functions with field sampling and laboratory processes. Laboratory Technicians perform a variety of routine laboratory procedures including: field sampling; receiving and logging in samples into laboratory information management system; preparing laboratory media, reagents, and solutions; assembling sample collection kits, taking inventory of and assisting with ordering laboratory supplies; maintaining basic laboratory equipment; performing standardized bacteriological and general chemistry testing; assisting microbiologists and chemist with application of quality control standards, sterilizing laboratory equipment; and communicating with other Valley Water personnel as needed. The ideal candidate will have some understanding of drinking water regulations, sample collection and monitoring requirements, and will be able to adapt to specific EPA and/or Standard Methods for the purpose of State accreditation.

Ideal Experience:

Laboratory Technician I

Two (2) years of chemical, biological, or bacteriological laboratory experience OR twelve (12) semester units of college level course work in physical, natural, or earth sciences may substitute for two (2) years of experience.

Laboratory Technician II

Four (4) years of chemical, biological, or bacteriological laboratory experience OR twelve (12) semester units of college level course work in physical, natural, or earth sciences may substitute for two (2) years of experience.

To apply, please visit <https://apptrkr.com/2358222>

Professional Opportunities

the nation. The Ph.D. program centers on researching and developing leading-edge intelligent systems and robotic software and hardware technology that combines human and machine elements to exploit their respective strengths and mitigate their respective weaknesses.

The UWF Department of Intelligent Systems and Robotics invites applications for a full-time tenure-track position, preferably at the associate and full professor level. Outstanding candidates in all areas of intelligent system and robotics will be considered, particularly in machine learning. Qualified research-intensive applicants can be considered for a joint appointment with IHMC.

All tenured and tenure-track positions require a Ph.D. or equivalent degree in computer science or related areas at the time of employment. Successful candidates are expected to pursue an active and externally funded research program, to teach graduate courses, to supervise graduate students, and to be instrumental in the development of the ISR Ph.D. program.

Position Qualifications: Ph.D. in Computer Science, Engineering, Electrical Engineering, or field closely related to intelligent systems and robotics from an accredited institution with a strong commitment to academic research, service and teaching.

For additional information and to apply, please visit <https://careers.uwf.edu>. The start date for the position is August 8, 2022. The preferred response date to apply is

March 2, 2022. Salary range: Commensurate with education and experience

Additional information about the University of West Florida is available at www.uwf.edu

The University of West Florida is an Equal Opportunity/Access/Affirmative Action/Disabled/Veteran employer. Any individual requiring special accommodation to apply is requested to advise UWF by contacting UWF Human Resources at 1-850-474-2694 (voice) or 1-850-857-6158 (TTY). A criminal background check is required for successful candidates. E-Verify requirements may apply for employment in certain positions. All applications for employment at the University are subject to Florida public records law.

chosen candidate will be expected to teach at both the undergraduate and graduate level, actively seek research grants, participate in all aspects of the college's mission, and serve the profession. Strong written and verbal communication skills are required. Applicants should consult the college's web page to review our academic and research programs. Applicants will be evaluated based on current credentials as well as potential for future impact.

Applicants should submit a cover letter and curriculum vitae to Dr. Vinitha Subburaj at vsubburaj@wtamu.edu.

West Texas A&M University

Assistant Professor of Computer Science

The College of Engineering at West Texas A&M University invites applications for a tenure-track faculty Assistant Professor position in computer science.

Applicants must have an earned doctorate in computer science or an appropriate closely related discipline. This search specifically targets all areas of Data Science including artificial intelligence, machine learning, data management, data visualization, databases, cybersecurity and their applications and systems. Candidates with a strong background in computer science, mathematics, and applied statistics are preferred. The