CRN At-A-Glance

Nominations Open

CRA Distinguished Service Award
Deadline December 6, 2019

CRA A. Nico Habermann Award
Deadline December 6, 2019

CRA Award for Outstanding Undergraduate Researchers
Deadline October 18, 2019

Full articles on award programs begin on page 2.

A 20-Year Community Roadmap for AI Research in the US is Released

The Computing Community Consortium (CCC) is pleased to release the completed Artificial Intelligence (AI) Roadmap. This roadmap is the result of a year long effort by the CCC and over 100 members of the research community, led by Yolanda Gil (University of Southern California and President of AAAI) and Bart Selman (Cornell University and President Elect of AAAI). Comments on a draft report of this roadmap were requested in May 2019. Thank you to everyone in the community who participated in workshops, helped write the report, submitted comments, and edited drafts. Your input and expertise helped make this roadmap extremely comprehensive.

See page 4 for full article.

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cra.org/crn
Nominations Open for CRA Distinguished Service and A. Nico Habermann Awards

The Computing Research Association invites nominations for the 2020 CRA Distinguished Service Award and A. Nico Habermann Award.

**Distinguished Service Award**

CRA presents an award, usually annually, to a person or multiple people who have made an outstanding service contribution to the computing research community. This award recognizes service in the areas of government affairs, professional societies, publications or conferences, and leadership that has a major impact on computing research.

**Guidelines for Nominators**

The quality and extent of computing research conducted by the candidate is not taken into consideration in making this award, and material about the candidate’s research accomplishments should not be included in the nomination material. Service considerations are limited to those that relate to the computing research community. Thus, for example, government service on behalf of the computing research community or educating graduate students for research careers would count.

However, the selection committee will not give consideration to service in undergraduate education unless it relates directly to computing research.

Viable candidates are likely to be senior members who have participated in editorial boards and planning or programming committees. While it is not objectionable to mention this kind of service in the nomination, it is not likely to be a key factor in the selection process unless the applicant’s service is well above and beyond that of other senior members.

Longevity, effectiveness, breadth, and community-wide scope of service are all important in the award selection. The nomination letter must make an argument why the candidate deserves the award, focusing on a few key contributions and providing evidence for these claims. The nomination should not simply consist of a list of accomplishments.

Nominators must obtain three to four letters in support of the nominee from distinguished members of the computing research community, with particular emphasis on its community-wide scope. The nomination must include a copy of the candidate’s current curriculum vitae. Submit nominations here.

Questions or comments may be addressed to awards@cra.org.

The deadline for receipt of nominations is December 6, 2019.

Current members of the CRA Board of Directors are not eligible for these two awards.

**A. Nico Habermann Award**

CRA presents an award, usually annually, to a person or multiple people who have made outstanding contributions aimed at increasing the numbers and/or successes of underrepresented groups in the computing research community. This award recognizes work in areas of government affairs, educational programs, professional societies, public awareness, and leadership that has a major impact on advancing these groups in the computing research community. Recognized contributions can be focused directly at the research level or at its immediate precursors, namely students at the undergraduate or graduate levels.

**Guidelines for Nominators**

Longevity, effectiveness, breadth, and community-wide scope of service, rather than great contributions within one institution, are important in the award selection. The nomination letter must make an argument for why the candidate deserves the award, focusing on a few key contributions and providing evidence for these claims. The nomination should not simply consist of a list of accomplishments.

Nominators must obtain three to four letters in support of the nominee from distinguished members of the computing research community who are familiar with the candidate’s service, with particular emphasis on its community-wide scope. The nomination must include a copy of the candidate’s current curriculum vitae. Submit nominations here.
Nominations Open for 2020 CRA Award for Outstanding Undergraduate Researchers

The Computing Research Association (CRA) is pleased to announce the annual CRA Award for Outstanding Undergraduate Researchers, which recognizes undergraduate students in North American colleges and universities who show outstanding research potential in an area of computing research. The award is a wonderful way to recognize your best student researchers and your department.

Eligible nominees must be enrolled as undergraduates in a North American college or in Fall 2019. PhD-granting departments may nominate up to four students and other departments may nominate up to two students.

Up to four CRA Outstanding Undergraduate Research Awards will be made. Each award recipient will receive financial assistance of up to $1500 to attend a research conference of their choice. Additional nominees will be designated as runners-up, finalists, and honorable mentions. The award recipients, runners-up, finalists, and honorable mentions will be announced by e-mail in mid-December, will receive certificates of their awards, and will be recognized on CRA’s website.

Everything you need to submit a nomination for the CRA Outstanding Undergraduate Researchers Award, including detailed instructions and the nomination form, is available at: http://cra.org/crae/awards/cra-outstanding-undergraduate-researchers/.

Questions and inquiries about the awards should be sent to: undergradawards@cra.org. The deadline for nominations is Friday, October 18, 2019, at 9 PM ET. Please note that this year you will need to create an account in order to submit a nomination. Also, new this year, the nominations package will need to be submitted as one PDF file in the specific order specified in the instructions.

Microsoft Research and Mitsubishi Electric Research Labs (MERL) sponsor the CRA Outstanding Undergraduate Researchers Award Program in alternate years. The 2020 award is being sponsored by MERL. This award is managed by the CRA Education Committee. Faculty members nominating a student for the CRA award are encouraged to talk to the student about the NSF Graduate Research Fellowship Program (GRFP). The required nomination materials are similar and some can be used for both the CRA-E award and the NSF GRFP application. The NSF Graduate Research Fellowship Program recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based Master’s and doctoral degrees at accredited United States institutions. See https://www.nsfgrfp.org/ for information for applicants, letter writers, how to sign up as a panelist, and the program solicitation. Applications for GRFs are due one week after the CRA award nominations, on October 22, 2019.

Please share this document with your colleagues!
A 20-Year Community Roadmap for AI Research in the US is Released

By Mark Hill, Liz Bradley, and Ann Schwartz Drobnis

The Computing Community Consortium (CCC) is pleased to release the completed Artificial Intelligence (AI) Roadmap, titled A 20-Year Community Roadmap for AI Research in the US! An HTML version is available here.

This roadmap is the result of a year long effort by the CCC and over 100 members of the research community, led by Yolanda Gil (University of Southern California and President of AAAI) and Bart Selman (Cornell University and President Elect of AAAI). Comments on a draft report of this roadmap were requested in May 2019. Thank you to everyone in the community who participated in workshops, helped write the report, submitted comments, and edited drafts. Your input and expertise helped make this roadmap extremely comprehensive.

From the Roadmap:

Major Findings

I – Enabled by strong algorithmic foundations and propelled by the data and computational resources that have become available over the past decade, AI is poised to have profound positive impacts on society and the economy.

II – To realize the potential benefits of AI advances will require audacious AI research, along with new strategies, research models, and types of organizations for catalyzing and supporting it.

III – The needs and roles of academia and industry, and their interactions, have critically important implications for the future of AI.

IV – Talent and workforce issues are undergoing a sea change in AI, raising significant challenges for developing the talent pool and for ensuring adequate diversity in it.

V – The rapid deployment of AI-enabled systems is raising serious questions and societal challenges encompassing a broad range of capabilities and issues.

VI – Significant strategic investments in AI by the United States will catalyze major scientific, technological, societal, and economic progress.

Recommendations

I – Create and Operate a National AI Infrastructure to serve academia, industry, and government through four interlocking capabilities:

- Open AI platforms and resources: a vast interlinked distributed collection of “AI-ready” resources (such as curated high quality datasets, software, knowledge repositories, testbeds for personal assistants and robotics environments) contributed by and available to the academic research community, as well as to industry and government.

- Sustained community-driven AI challenges: organized sequences of challenges that build on one another, posed by AI and domain experts to drive research in key areas, building upon—and adding to—the shared resources in the Open AI Platforms and Facilities.

- National AI Research Centers: multi-university centers with affiliated institutions, focused on pivotal areas of long-term AI research (e.g., integrated intelligence, trust, and responsibility), with decade-long funding to support on the order of 100 faculty, 200 AI engineers, 500 students, and necessary computing infrastructure. These centers would offer rich training for students at all levels. Visiting fellows from academia, industry, and government will enable cross-cutting research and technology transition.
20-Year Community Roadmap (continued)

• Mission-Driven AI Laboratories: living laboratories for AI development in targeted areas of great potential for societal impact. These would be ‘AI-ready’ facilities, designed to allow AI researchers to access unique data and expertise, such as AI-ready hospitals, AI-ready homes, or AI-ready schools. They would work closely with the National AI Research Centers to provide requirements, facilitate applied research, and transition research results. These laboratories would be crucial for R&D, dissemination, and workforce training. They would have decade-long funding to support on the order of 50 permanent AI researchers, 50 visitors from AI Research Centers, 100-200 AI engineers and technicians, and 100 domain experts and staff.

II — Re-conceptualize and Train an All-Encompassing AI Workforce, building upon the National AI Infrastructure listed above to:

• Develop AI Curricula at All Levels: guidelines should be developed for curricula that encourage early and ongoing interest in and understanding of AI, beginning in K-12 and extending through graduate courses and professional programs.

• Create Recruitment and Retention Programs for Advanced AI Degrees: including grants for talented students to obtain advanced graduate degrees, retention programs for doctoral-level researchers, and additional resources to support and enfranchise AI teaching faculty.

• Engage Underrepresented and Underprivileged Groups: programs to bring the best talent into the AI research effort.

• Incentivize Emerging Interdisciplinary AI Areas: initiatives to encourage students and the research community to work in interdisciplinary AI studies—e.g., AI safety engineering, as well as analysis of the impact of AI on society—will ensure a workforce and a research ecosystem that understands the full context for AI solutions.

• Highlight AI Ethics and Policy: including the importance of the area of AI ethics and policy, and the imperative of incorporating ethics and related responsibility principles as central elements in the design and operation of AI systems.

• Address AI and the Future of Work: these challenges are at the intersection of AI with other disciplines such as economics, public policy, and education. It is important to teach students how to think through the ethical and social implications of their work.

• Train Highly Skilled AI Engineers and Technicians: support and build upon the National AI Infrastructure to grow the AI pipeline through community colleges, workforce retraining programs, certificate programs, and online degrees.

III — Core Programs for basic AI Research are critical.

The new resources and initiatives described in this Roadmap cannot come at the expense of existing programs for funding AI research. These core programs—which provide well-established, broadbased support for research progress, for training young researchers, for integrating AI research and education, and for nucleating novel interdisciplinary collaborations—are critical complements to the broader initiatives described in this Roadmap, and they too will require expanded support.

All of this will require substantial, sustained federal investment over the course of the 20-year period covered by this Roadmap, but the outcomes will be transformative. The recommendations above are not only a scaffold for interdisciplinary, forward-looking R&D that will drive scientific and economic advances while taking into consideration issues around security, vulnerability, policy, and ethics. The recommendations in this Roadmap will also allow the retention of the best talent in fertile research settings, creating extensive human capital in this crucial technology area—another important benefit to society and the economy.

Thank you again to the community for your input. Please see the full Roadmap here. If you have any questions or want to help share the Roadmap, please email the CCC Director, Ann Schwartz Drobnis (adrobnis@cra.org).
Sociotechnical Interventions for Health Disparity Reduction Workshop Report Released

By CCC Staff

The Computing Community Consortium (CCC) recently released the Research Opportunities in Sociotechnical Interventions for Health Disparity Reduction workshop report. The CCC’s 1.5 day Sociotechnical Interventions for Health Disparity Reduction workshop took place in April 2018 in New Orleans, co-located with the Society for Behavioral Medicine’s 39th Annual Meeting.

This cross-disciplinary workshop, brought together leading researchers in computing, health informatics, and behavioral medicine to develop an integrative research agenda regarding sociotechnical interventions to reduce health disparities and improve the health of socio-economically disadvantaged populations.

“Health disparities are differences in disease prevalence, incidence, morbidity and/or mortality in one group as compared to the general population. In Western countries, groups which experience disparities in health outcomes include:

- People of lower socio-economic status (SES) based on income, wealth, education, and occupation;
- Racial and ethnic minority groups including African Americans, Latinos, Native Hawaiians/Pacific Islanders, and Indigenous peoples;
- Rural and urban residents;
- Lesbian, gay, bisexual and transgender (LGBT) people;
- People with disabilities; and
- Men or women (varies by health issue)\[1\]

Some research challenges and opportunities identified in the report include:

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<tr>
<th>Challenges</th>
<th>Opportunities</th>
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<td>• Marginalized groups are understudied because of difficulty with recruitment, retention, or trust issues.</td>
<td>• Ensure researchers have resources to build and maintain community-based research collaborations.</td>
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<td>• Current sociotechnical interventions focus on “downstream” interventions where a participant manages a set of issues specific to themselves. Downstream interventions do not address the social origins of health disparities</td>
<td>• Develop and evaluate methods of recruitment, technology uptake, and study retention for studies that work with marginalized communities.</td>
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<td>• Support is needed to develop upstream and multi-level interventions to reduce health disparities by impacting community, social, economic, and political factors.</td>
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### Sociotechnical Interventions (continued)

- When we create sociotechnical interventions that have an impact on outcomes, it is not clear what part of the sociotechnical intervention initiated and maintained that change.
- Encourage funding agencies to continue supporting broader impacts in research to ensure researcher are addressing issues that are important to communities.
- Emphasize the need for pilot studies and iterative design to ensure initial conditions are correct.
- Evaluate the “dose” of sociotechnical systems to better understand the frequency of use, as well as the dosing contexts and infrastructure support available.

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<tr>
<th>Current behavioral theories and models often do not account for sociotechnical systems and are not representative of marginalized populations</th>
<th>Document instruments, data streams, and mappings between sociotechnical systems and theories used.</th>
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<td>Develop dynamic new theories that can account for future sociotechnical systems and capture the social contexts of marginalized populations.</td>
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<th>Researchers must measure multiple dimensions of social determinants of health to evaluate impact at the population level, but there is a lack of dynamic theories, study designs, or metrics to capture the changing technological and contextual landscape of marginalized populations.</th>
<th>Create and document equity-relevant metrics that can capture appropriate levels of detail to contextualize user groups and interventions.</th>
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<td>Develop, evaluate, share, and validate study designs and theories for interventions.</td>
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<th>By designing to improve health disparities, researchers may introduce unintended consequences (e.g., everyone benefits and thus the disparities stay the same or worsen).</th>
<th>Establish research processes that check on what groups, data, or resources are unaccounted for and monitor unintended consequences.</th>
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<td>Engender a research culture in which learning, sharing, and disclosing failures are encouraged.</td>
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<th>Based on past treatment in research, some marginalized groups may have less trust in research. These trust issues are exacerbated when it is unclear how study participation or data access – especially in commodity products – is scoped.</th>
<th>Produce systems that assist researchers in identifying ethical issues and proactively assess risks with benefits.</th>
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<tr>
<td>Develop a consortium or national centers to address health disparities that bring researchers from multiple disciplines together with partners to address the research to practice gap.</td>
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You can read the full workshop report [here](#).
Students’ Level of Satisfaction with Computing Degree Programs

By Burçin Tamer, Director of CERP

Understanding the relationship between specific aspects of a degree program and students’ overall satisfaction with the program can help departments make decisions about how to improve their degree programs. Undergraduate student data from fall 2018 Data Buddies Survey presented in this graphic show that access to academic resources, quality of the technical content of courses, and availability of professors outside of class are the top three characteristics of a program that are most closely associated with students’ overall satisfaction with the program.

Interestingly, the number of students in their computing classes being too large is not highly related to their satisfaction. In fact, on average, both students who were satisfied with the program and those who were not are approximately indifferent (neither agree nor disagree (3)) towards the importance of class size.

Students’ satisfaction with all aspects of programs reported here with the exception of class size differ by at least 1 point on the scale of 1-5 between the students who reported being satisfied with their degree program and those we did not. The quality of the technical content of courses and level of career preparation make the largest difference for whether students are satisfied with the program overall.
Notes:
The survey data used in this chart were collected during fall 2018 by CERP via the Data Buddies Project. The sample includes 6,536 undergraduate students enrolled in a computing major. Students’ overall satisfaction with their degree program was determined based on the question “Please indicate the extent to which you disagree or agree with the following statement: - Overall, I am satisfied with the computing program at my institution.” Students’ ratings of Strongly Disagree (1) and Disagree (2) were considered not satisfied and Agree (4) and Strongly Agree (5) were considered satisfied. Students who selected “Neither Agree nor Disagree (3)” were not included in these analyses. There were 5,680 students who were satisfied with their degree program and 856 who were not. The items inquiring about specific aspects of their computing degree programs and computing courses asked students’ level of agreement with statements regarding their satisfaction with the items listed here. The scale was: Strongly Disagree (1) – Strongly Agree (5).

The relationships between all items listed here as well as Likert-scale form of students’ overall satisfaction item were tested using Spearman’s correlation. The analysis showed the same relationship in that the top items shown here were strongly correlated with overall satisfaction.

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

This material is based upon work supported by the National Science Foundation under grant numbers (CNS-1246649, CNS 1840724, DUE-1431112, and DUE 1821136). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.
Teaching is hard — and teaching computer science can be even harder. With the growing need for computer science teachers in the classroom and an increased focus on access to computer science education, the role of the Computer Science Teachers Association (CSTA) is more important than ever. With the mission of supporting K-12 teachers in the field, CSTA provides educators with the professional development events and community they need to improve their craft.

This past July, we hosted our largest CSTA Annual Conference to date — connecting 1,014 onsite attendees with the latest topics in CS education. These attendees had access to four general sessions, 20 workshops, seven Birds of a Feather discussions and 51 sessions full of peer-reviewed content.

With significant growth in the past five years and a 40 percent increase in attendees over 2018, the conference was the perfect venue to announce the initiative we’re supporting over the next year — and beyond.

**Commitment to Equitable Teaching Practices**

During her keynote address “Equity, Inclusion, and Teaching CS to All,” CSTA Equity Chair Dr. Joanna Goode announced the launch of our organization’s first Equity Fellowship. The year-long program, made possible in partnership with Microsoft and Pluralsight One, has been designed to develop leadership in equitable teaching practices and advocacy.

The initial cohort of 10 fellows will:

- Share their expertise with CSTA members across the globe;
- Support the design of professional learning experiences for CSTA members; collaboratively design and implement a project to promote equity in CS education; and
- Showcase their projects at CSTA 2020.

As of the writing of this piece, CSTA’s review committee is in the process of selecting fellows from the 112 applications received. We encourage you to visit [CSTA’s website](https://csta.org/) in late September to learn about the 10 selected fellows and follow along with the amazing projects they will be creating.

Dr. Goode’s keynote address wasn’t the only opportunity for educators to focus on learning about equitable practices. Other session opportunities included “Advancing Equity and Inclusion in Computer Science Education” — presented by Microsoft, “Philosophy to Pedagogy: Practical ways to create an inclusive classroom” and “Making Computer Science Classes Culturally Relevant for All Students.”

“CSTA should be recognized for its commitment to equity...Thank you CSTA for making this important issue such as focal point of your conference.”
Excellence in Computer Science
As a former high school computer science teacher, I was thrilled to announce that CSTA is elevating the Computer Science Honor Society (CSHS) to the national level. This program offers high school teachers from across the United States the opportunity to cultivate local societies that support thriving environments for success in computing courses. This program encourages secondary students’ enthusiasm for computer science, honors academic excellence and promotes service through three core values:

- **Equity:** A realization that any student has the potential to enroll, to grow, and to excel in computing.
- **Service:** Empowering members to become ambassadors of the computer science discipline, helping underscore its importance as a mainstay in the school and the community.
- **Excellence:** A commitment to promoting outstanding scholarship in computer science coursework.

Since its introduction at CSTA 2019, 30 applications have come through to form new societies for the 2019–20 school year. These new societies will join the 45 existing ones. If your school is interested in starting a CSHS, visit csteachers.org/CSHS to learn about the criteria.

Leadership Development for Chapter Leaders
CSTA’s chapters are the heartbeat of the organization — the place where teachers can go to ask questions, find solutions and offer advice. My local CSTA chapter was the first place I found a community of practice and support. That’s why I’ve focused CSTA on growing and sustaining our local chapters to make sure that every new computer science teacher has an even better experience than I did when walking into their first chapter meeting.

A great chapter experience comes from the dedication of chapter leadership. Thanks to the support of our strategic partner Google, we were proud to host 79 of CSTA’s chapter leaders at the Chapter Leadership Summit, which was held during CSTA 2019. During this event, Chapter Leaders were provided with programming to help strengthen their chapters in the areas of:
Expanding the Pipeline (continued)

- Finances and Grants
- Website Management
- Events
- Building Community
- Developing a Marketing Plan
- Fundraising
- Membership
- Grassroots Advocacy
- Computer Science Professional Development Weeks

“As a new member and leader, I have learned something in every meetup. I liked meeting and collaborating with so many other chapters. I was also able to join the discussions regarding a New England consortium of chapters and the October PD that we will collaborate on.”

For the first time ever, leadership was provided with the guidance to both assess and set goals for their chapters. We’re so excited to see how our chapters continue to grow over the next year!

CSTA Chapter Leaders gained special access to a reception, sponsored by Google, where they were the first to hear about Google’s $1 million grant to CSTA and the launch of their new brand, Code with Google. At the event, they learned about new Google technologies, got to check out a Waymo car, and were able to network and share best chapter practices with each other.

As we reflect on the success of CSTA 2019 and move forward with these new programmatic focuses, we’re already planning for the 20th Annual CSTA Conference! CSTA 2020 will be our longest conference to date — we’re adding a day of programming to provide even more value to our attendees. Set for July 11–15 in Arlington, Virginia, CSTA 2020 registration is available for CSTA+ members. To learn more about CSTA and the Annual Conference, visit our website.

About the Author

Jake Baskin is the Executive Director of CSTA, the world’s leading association for K-12 computer science teachers. He is a former high school computer science teacher, department chair, and professional development provider with the Chicago Public Schools, where he focused on increasing access to computing for underrepresented groups and more than doubled female enrollment in introductory computer science classes. Prior to CSTA, Baskin was Director of State Government Affairs for Code.org, where he worked with educators and policymakers to advocate for policies that expand access to high-quality computer science education with state departments of education and governor’s offices across the country.
CRA’s CV Database Initiative Turns One

As a first step to address recent recruiting challenges in the computing research community, the Computing Research Association (CRA) launched the CV Database initiative in Fall 2018. This initiative provides a database of candidates for academic and industrial/government laboratory research positions. It is searchable by most CRA member institutions. During its first year, the CV Database attracted 322 applicants who were able to upload information such as a C.V., research/teaching statements, geographic preferences and short videos. Of the 276 applicants who indicated their institution, they represented 130 institutions across ten countries, namely, U.S.A., Canada, India, New Zealand, Singapore, Spain, South Korea, Sweden, Switzerland, and U.K. They spanned over 40 computing research sub-areas including Machine Learning, Data Science, (Cyber-)Security, HCI, Networks, Algorithms, Theory, Cloud Computing, Robotics, Software Engineering, and CS Education. The CV Database was queried by recruiters from 65 institutions (about 30% of the CRA membership). One institution joined CRA to access the CV Database.

Recruiting continues to be one of the top computing research community challenges. Thus, CRA plans to strengthen the CV Database initiative and take additional actions in 2019-20.

What’s new this year? CRA has reviewed usage data from the first year application cycle and made adjustments to improve the user experience and process. For example, to reduce the data entry load on applicants, the following adjustments have been made: (a) an application is considered complete when it contains a CV and a statement, (b) endorsement by the candidate’s advisor/endorser is no longer required, and (c) Masters institution information has been omitted. Furthermore, applications from the 2018-19 cycle have been removed. Only applications submitted in the new cycle will be visible.

The CV Database will re-open for the 2019-20 recruiting season in mid-September 2019. It can be accessed through https://cra.org/cv-database/. Candidates will be able to upload their resumes, research and teaching statements, job objectives and other preferences, and a link to a short presentation video. Recruiters will be able to search this information and are encouraged to contact candidates.

Please encourage all of your finishing PhD students looking for academic or industrial/government laboratory research positions to post their applications soon, before the academic recruiting season begins.

In mid-October 2019, recruiter access to the CV Database will be made available to all CRA academic members. Additionally, industrial and government laboratory CRA member institutions that sponsor Grad Cohort 2020 at the silver level and above will receive access.

We hope that your PhD students and your Faculty Recruiting Committee find this service valuable. For further information visit: https://cra.org/cv-database/#Info.

Questions should be directed to cvdatabase@cra.org, Prof. Josep Torrellas (torrella@illinois.edu) or Prof. Shashi Shekhar (shekhar@umn.edu).

Related Products:


2. Improving Faculty Recruiting in the Computing Community: A Panel Discussion. 2018 CRA Conference at Snowbird, July 17, 2018.


The 2019 CRA Taulbee Survey will be starting soon. As has been our recent practice, the survey will be split into two parts, salary and main (everything else). This allows us to set an earlier deadline for the salary section in order to produce a preliminary salary report in December, while giving departments more time to collect and enter the information in the rest of the survey if needed.

In 2018 there was a major change to teaching faculty data collection. The group we previously called non-tenure-track teaching faculty was divided into two categories: those with more professor-like responsibilities, and those who are more instructor-like. This will continue this year in both the salary and main surveys.

**Taulbee Schedule**

**By September 10:** All doctoral departments will be contacted to update Taulbee user information. The academic unit head will receive an email and so will the Taulbee primary contact, if separate.

**September 13:** Pdf will be available for data gathering.

**September 18:** Both Salary and Main surveys open for input

**December 1:** Due date for salary section.

**Late December:** Preliminary salary report available to participants.

**January 17, 2020:** Due date for the main Taulbee section.

**April 2020:** Full Taulbee report to CRA members and participating departments.

**May 2020:** Published in CRN.

The Taulbee Survey is open to all academic units that grant doctorates in Computer Science, Computer Engineering, or Information. If you have any questions, contact Betsy Bizot at bizot@cra.org
CRA Taulbee Survey Correction to Table S13

In the 2018 CRA Taulbee Report published in the May 2019 CRN, the values for Full Professor salaries in Table S13 (US CS Public in Midsize City or Suburbs) are incorrect. A corrected version of this table is provided here. CRA regrets the error.

### Table S13. Nine-month Salaries, 25 Responses of US CS Public in Midsize City or Suburbs, Percentiles from Department Averages

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<th>Full Professor</th>
<th>Associate</th>
<th>Assistant</th>
<th>Non-Tenure Track</th>
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<tbody>
<tr>
<td></td>
<td>In rank 16+ yrs</td>
<td>In rank 8-15 yrs</td>
<td>In rank 0-7 years</td>
<td>All years in rank</td>
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CRA has recently hired Evelyn Yarzebinski as a research associate for CRA’s Center for Evaluating the Research Pipeline (CERP). In this role, Evelyn supports CERP activities through administrative and research efforts, such as contributing to the CERP website and blog, data management, and analysis.

Prior to joining CRA, she was a research associate at Carnegie Mellon University’s Human-Computer Interaction Institute, where she led study planning and data collection, management, and analysis for projects aimed at improving math- and literacy-based educational technologies for children worldwide. Evelyn holds a bachelor’s degree in linguistics from the University of Pittsburgh.
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Column Editor
Expanding the Pipeline
Patty Lopez, Intel
AAAS Science & Technology Policy Fellowships

Applications are now being accepted for the AAAS S&T Policy Fellowships (STPF) class of 2020-2021. This professional level fellowship is the premier opportunity for outstanding scientists and engineers to learn first-hand about policymaking, bring valuable expertise to policy, and enhance science in the federal government.

Eligibility requirements include U.S. citizenship and a doctoral level STEM degree. Applicants with an M.S. in engineering and three years of professional experience also qualify.

Deadline is November 1, 2019

Learn more and apply today: https://fellowshipapp.aaas.org/app/main/

Amherst College

Assistant Professor of Computer Science

The Amherst College Department of Computer Science invites applications for a full-time tenure-track position at the rank of assistant professor, beginning July 1, 2020. Candidates in all areas of computer science are encouraged to apply. Within the last decade, Amherst College has profoundly transformed its student body in terms of socioeconomic status, ethnicity, race, and nationality. Today, nearly one-quarter of Amherst’s students are Pell grant recipients; 45 percent of our students identify as domestic students of color; and 10 percent of our students are international students. Our expectation is that the successful candidate will excel at teaching and mentoring students who are broadly diverse with regard to race, ethnicity, socioeconomic status, gender, nationality, sexual orientation, and religion.

We seek a colleague who is committed to excellence in undergraduate education and in research involving undergraduate students, and who is enthusiastic about teaching courses in a variety of areas. The teaching responsibility is two courses each semester.

The department has six tenure-line faculty with vibrant research programs in the areas of algorithms, data science, machine learning, and systems, all involving undergraduate students and supported by top notch research and teaching facilities. The successful candidate must have a Ph.D. in computer science in hand or have fulfilled all requirements for the degree by the start of the appointment.

A cover letter, curriculum vitae, research and teaching statements, and three confidential letters of recommendation must be submitted electronically to https://apply.interfolio.com/66321. Applications received by October 21, 2019, will be assured of full consideration. Review of applications will continue until the position is filled.

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

Bennington College

Faculty Position in Computer Science

Bennington College invites applications for a full-time faculty position in computer science, beginning Fall 2020. Applicants with academic, industrial, and/or artistic backgrounds in computer science and from all sub-specializations are encouraged to apply. The ability to teach and develop new courses in multiple subfields of computer science that can be integrated into a broad liberal arts environment is highly desirable. An advanced degree in computer science or a closely related field is desirable, but not required. If desired, the option of a part-time position exists for an exceptional candidate.

Candidates should apply online at https://bennington.recruiterbox.com/jobs/fk0335t.

Review of applications begins September 30 and will continue until the position is filled. This position requires the successful completion and acceptable results of a background check.
Bentley University

Tenure Track Assistant/Associate Professor, Computer Information Systems

Summary:

The Department of Computer Information Systems (CIS) at Bentley University invites applications for a tenure track position at the assistant or associate professor level starting in the fall of 2020. A qualified candidate should have an excellent record of accomplishments in both research and teaching appropriate for the candidate’s level of experience and will be expected to contribute to the CIS department’s mission of educating technically adept information systems professionals and advancing the state of research at the intersection of business and digital technologies.

The CIS department offers programs at the undergraduate and master’s levels and contributes courses to several other programs at Bentley including the undergraduate general education core and the graduate analytics core. The main areas of teaching include business intelligence and analytics, applied artificial intelligence, cybersecurity, database management, enterprise architecture, computing and communication infrastructure, web & mobile technologies, application development, and IT project management. The CIS faculty’s scholarship encompasses several areas of Information Systems and Computer Science. CIS faculty research receives external funding and appears in leading publication outlets.

Located 12 miles west of Boston in Waltham, Massachusetts, Bentley University is one of the nation’s top business schools, dedicated to preparing a new kind of business leader with the technical skills, global perspective and ethical standards required to make a difference in an ever-changing world. The university enrolls approximately 4,000 undergraduate and 1,000 graduate students. The Princeton Review ranks Bentley #1 in the United States in career services and #4 in internships, and Bloomberg BusinessWeek ranked Bentley a Top 10 undergraduate business school in 2016.

Bentley University leads higher education in providing transformative business education grounded in the liberal arts and sciences. We instill in our students a deep sense of corporate social responsibility and prepare them to succeed in a future shaped by rapidly changing technology. We seek faculty and staff who represent diverse backgrounds, interests and talents, are dedicated to high ethical standards and have a willingness to embrace change. A team-oriented work environment promotes personal development and professional accomplishment.

Minimum Qualifications:

The department is seeking applicants with a PhD in Information Systems, Computer Science, or a related field.

Special Instructions to Applicants:

To apply, please go to https://bentley.wdl.myworkdayjobs.com/faculty. You will need to upload a resume/curriculum vitae, a cover letter and a reference list of three people. Names and contact information for three references are required upon application. Bentley will contact these confidential references for those candidates moving forward in the process. Review of applicants will start immediately and will continue until the position is filled. For questions, contact Dr. Monica Garfield (CISRRecruiting@bentley.edu).

Binghamton University

Assistant Professor

The Computer Science Department at Binghamton University has one tenure-track assistant professor position beginning Spring 2020. Applicants should have a Ph.D. in Computer Science or related discipline, a strong research record, and a commitment to research and teaching. Qualified applications are invited from candidates with specializations in the areas of Artificial Intelligence (deep learning, computer vision, NLP, knowledge management and reasoning).


Applications will be reviewed until positions are filled. First consideration will be given to applications received by October 1, 2019.

Binghamton University is an Equal Opportunity/Affirmative Action/Disability/Veterans Employer.
Boston University

**Assistant Professor of Computational Linguistics**

The Boston University Linguistics Department seeks a tenure-track Assistant Professor of Computational Linguistics (for primary appointment in Linguistics, secondary appointment in or affiliation with Computer Science), beginning July 1, 2020, pending budgetary approval: to conduct research, teach courses in Computational Linguistics at introductory and advanced levels and in related areas (Linguistics, Computer Science), and advise at graduate and undergraduate levels. Should have excellent programming skills and experience in computational linguistic research. Experience in application of computational methods to field linguistics or analysis of understudied languages would be a plus.

Requirements include PhD in Linguistics (preferred) or Computer Science in hand by start date, with strong background in both fields, and demonstrated excellence in teaching, advising, and research. For further information: [http://ling.bu.edu/](http://ling.bu.edu/) and [http://www.bu.edu/cs](http://www.bu.edu/cs).

Application should be uploaded as individual PDF files through [https://academicjobsonline.org/ajo/jobs/14064](https://academicjobsonline.org/ajo/jobs/14064). Include 2-page cover letter plus separate statements about research, teaching, and diversity (describing past experience with and/or future plans for contributing to diversity and inclusion) through research, teaching, and/or service), of not more than 2 pages each. Please also upload a CV, documentation of success in teaching (e.g., complete sets of teaching evaluations), and three selected publications. Three reference letters are to be uploaded by recommenders. For full consideration, applications should be complete by October 20, 2019.

Boston University is an AAU institution with a rich tradition of inclusion and social justice. We are proud that we were the first American university to award a PhD to a woman (1877) and that Martin Luther King Jr. received his PhD here (1955). The Linguistics Program is committed to the College of Arts & Sciences Diversity and Inclusion Strategic Plan ([https://www.bu.edu/cas/about/diversity-inclusion/](https://www.bu.edu/cas/about/diversity-inclusion/)) for building a diverse, inclusive, and accessible environment for all. Applications from women, minorities, and candidates from other underrepresented groups are strongly encouraged, along with research that crosses disciplinary boundaries.

Bowdoin College

**2 Assistant Professor Positions in Computer Science**

Bowdoin College’s Computer Science Department invites applications for two tenure-track positions at the rank of Assistant Professor to begin fall 2020. We seek applications from all areas of computer science, including interdisciplinary fields that intersect computer science, such as work in any of the computational sciences, computational social sciences, or digital humanities. Areas such as Computer Science Education that complement faculty members’ current research are encouraged, along with research that crosses disciplinary boundaries.

Computer Science at Bowdoin is a dynamic and highly regarded department that has seen significant growth over the last decade: it is the fifth largest major overall and second among the sciences. We have developed innovative courses that explore, for example, social networks in politics, ethical issues in computing, and access to cultural institutions for the visually impaired. In collaboration with the new Digital and Computational Studies Program, we have expanded the scope of what computation at
Bowdoin comprises. In addition, the College has invested significant and on-going resources to increase the participation of women and persons of color in both the major and at national conferences. These efforts are being further strengthened by external grants, student initiatives, and alumni donations.

Bowdoin is a learning community that warmly welcomes people of all backgrounds. We encourage applications from candidates committed to the instruction and support of a diverse student population and from those who will enrich and contribute to the College’s multifaceted diversity. We especially encourage women to apply. In your application materials, please address how your teaching, scholarship, and/or mentoring would support our commitment to diversity and inclusion.

Bowdoin is seeking a colleague with a strong commitment to research and a promise of long-term successful scholarly engagement as well as a dedication to teaching excellence in a liberal arts environment. The College offers opportunities for professional development, startup funding for research, and a fully-funded, year-long junior sabbatical leave (after three years of teaching and successful reappointment), and regular, generously funded, post-tenure sabbaticals. The teaching load is two courses per semester. The successful candidate will share with all members of the department responsibility for instructing introductory and intermediate level courses and teach advanced courses in their area of specialization. Department faculty are committed to providing research opportunities for undergraduate students; the successful candidate will be expected to mentor independent projects and to actively encourage student involvement in their research. A Ph.D. in computer science is expected by the time of appointment.

We recognize that recruiting and retaining faculty may involve considerations of

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Assistant Professor, Dept. of Computer Science - Tenure Track

The Department of Computer Science is a mid-sized, cordial, collaborative, and innovative group of 8 full-time faculty members. The Department prepares students for exciting careers and graduate school through high quality instruction in small classes and close collaboration between faculty members and students on projects. The goal of the Department is to provide students with a strong foundation in computer science, one that also promotes critical thinking and lifetime learning. The Department is located in the Dana Mohler-Faria Science and Mathematics Center, where faculty and staff work with students in labs equipped with modern equipment and technology. The Bachelor’s of Science in Computer Science at Bridgewater State is ABET accredited. The Department also offers a MS degree in Computer Science.

Bridgewater State University is a teaching-intensive university located in Southeastern Massachusetts between Boston, MA and Providence, RI. The University is a liberal arts institution with a strong commitment to the sciences.

Essential Duties:
Responsibilities include teaching a variety of undergraduate- and master’s-level courses, advising undergraduates and supervising graduate students, participating in departmental curriculum development including ABET accreditation work, as well as engaging in ongoing scholarship and professional activity.

Required Qualifications:
- Applicants must have an earned Ph.D. in computer science, or a closely related field. ABD applicants will be considered.
- Applicants should be strongly committed to excellence in teaching and advising and to working in a multicultural environment that fosters diversity. They should also have an ability to use technology effectively in teaching and learning, a demonstrated capacity for scholarly activity, excellent verbal and written communications skills, as well as a commitment to public higher education.

Preferred Qualifications:
- Strong candidates of all specialties will be considered. Preference will be given to those with specialties in Machine Learning, Cybersecurity and Forensics, Compilers/Programming Languages, HCI / Animation/Virtual Reality, Computer Vision, and/or IoT.
- Candidates who involve undergraduates in research and projects, or do outreach to pre-college students are especially encouraged to apply.

Special Conditions for Eligibility:
- Please be aware that employment at Bridgewater State University is contingent upon completion of a successful background check.
- Please note the following information is required to complete your application for this position:
  - A minimum of three (3) professional reference entries.

To apply, visit https://aptrkr.com/1575703

Bridgewater State University (BSU) is an affirmative action/equal opportunity employer which actively seeks to increase the diversity of its workforce. We are dedicated to providing educational, working and living environments that value the diverse backgrounds of all people.
spouses and domestic partners. To that end, where possible, the College will attempt to accommodate and respond creatively to the needs of partners and spouses of members of the faculty.

Bowdoin College accepts only electronic submissions. Please visit https://careers.bowdoin.edu to submit: 1) cover letter; 2) curriculum vitae; 3) statement of research plans; 4) statement describing teaching philosophy/experience; 5) statement describing contributions to diversity and inclusion; 6) names and contact information for three references who have agreed to provide letters of recommendation upon request. Review of applications will begin October 11, 2019.

Founded in 1794 on the Maine coast, Bowdoin is one of the oldest and most selective coeducational, residential liberal arts colleges in the country. Located in Brunswick, a 30-minute drive north of Portland, the College is in an area rich with natural beauty and year-round outdoor activities. Bowdoin’s reputation rests on the excellence of its faculty and students, intimate size, strong sense of community, and commitment to diversity (32.7% students of color, 6% international students and approximately 15% first generation college students). Bowdoin College complies with applicable provisions of federal and state laws that prohibit unlawful discrimination in employment, admission, or access to its educational or extracurricular programs, activities, or facilities based on race, color, ethnicity, ancestry and national origin, religion, sex, sexual orientation, gender identity and/or expression, age, marital status, place of birth, genetic predisposition, veteran status, or against qualified individuals with physical or mental disabilities on the basis of disability, or any other legally protected statuses. For further information about the College and our department, please visit our website: http://www.bowdoin.edu.

**Brown University**

**Lecturer in Computer Science**

The Department of Computer Science at Brown University seeks applicants for a faculty position at the rank of lecturer, senior lecturer, or distinguished senior lecturer. The initial appointment would be for a 3-year period (renewable with potential for promotion and longer-term contracts). This position is part of a major expansion plan for the department as it is increasing its roster by 50% over the next few years.

The position involves teaching four undergraduate courses per year and advising undergraduate CS majors. At least some of the teaching would be in first- and second-year courses. Candidates will also teach some upper-level undergraduate courses, based on their expertise and department needs. The department seeks candidates who will contribute to its overall intellectual culture, lecturers are included in faculty meetings, advise undergraduate research projects, and participate in graduate research with the rest of the faculty. Lecturers with substantial research participation and supporting funds may be eligible for periodic course release. The department values teaching and educational innovation, and welcomes candidates interested in formally researching computing education in the context of their teaching. The department’s commitment to diversity and inclusion is reflected in several activities both within and beyond the scope of our courses.

Brown offers a vibrant community for both teaching and research, with 34 tenured and tenure-track faculty members, two lecturers, three research faculty and several affiliated, adjunct, and visiting faculty members. The department has a strong undergraduate culture, anchored by a mature, program for undergraduate teaching assistants (endowed at $10 million), as well as a long history of top-caliber published undergraduate research. Research and graduate programs leverage disciplinary strengths in CS as well as Brown’s broader interdisciplinary culture. CS is a founding partner in multiple university-wide initiatives including Data Science, Computational and Molecular Biology, Cybersecurity, and Human-Centered Robotics.

The position is expected to start in the fall of 2020. In selecting candidates, we will consider quality of teaching, evidence of effective teaching, commitment to diversity and inclusion, and compatibility with the area needs and interests of the department, as well as potential for effective participation in department or university activities. For all applicants, we...
will consider potential for impact beyond Brown (through teaching, research, significant system building, outreach, or other professional activities, as appropriate for the candidate). Applicants must have a Ph.D. by the start of the position. Applicants must submit a CV, a teaching statement, and a research statement (or a statement describing other significant professional activities beyond classroom instruction). Candidates must also arrange for at least three letters of reference to be submitted through the application website.

Brown University is committed to fostering a diverse, inclusive, and global academic community. As an EEO/AA employer, Brown considers applicants for employment without discrimination on the basis of gender, race, protected veteran status, disability, or any other legally protected status. The department is similarly committed to building a diverse faculty and strongly encourages women, underrepresented minorities and those who can contribute to the excellence, diversity, and inclusivity of our academic community. We strongly encourage the candidates to report any relevant experience, including work with diverse constituents, and plans in their teaching statements.

Brown University is located in Providence, RI, close to Narragansett Bay, an hour from Boston and about three hours from New York City. Providence has been consistently rated among the Northeast’s most livable cities and is home to diverse intellectual, artistic, and business communities.

To apply, please use Interfolio (https://apply.interfolio.com/66319). Review will begin on October 1, 2019, but applications will be considered until the position is filled. Inquiries may be addressed to: teaching_faculty_search_2020@lists.cs.brown.edu.

Bryn Mawr College

Continuing Lecturer, Computer Science

The Department of Computer Science at Bryn Mawr College invites applications for a full-time, continuing non-tenure-track Instructor or Lecturer and Computer Science Program Coordinator position to begin in August 1, 2020. An M.A./M.S. in Computer Science is required, though a Ph.D. in Computer Science or a related area is preferred. For more details on the position, please visit the Interfolio link below.

To apply, submit a cover letter, curriculum vitae, statement of teaching philosophy including a list of courses able to offer, and statement of demonstrated commitment to diversity and inclusion by December 2, 2019 to the Computer Science Search Committee via Interfolio at: https://apply.interfolio.com/65045. In addition, arrange for three letters of recommendation to be submitted via Interfolio to the Computer Science Search Committee.

Applications received by December 2, 2019 will receive full consideration.

Bryn Mawr College

Tenure-Track Assistant Professor, Computer Science

The Department of Computer Science at Bryn Mawr College invites applications for a full-time, tenure-track Assistant Professor position to begin August 1, 2020. We welcome applications from all areas of computer science. Candidates in the areas of theory, algorithms, or systems are especially encouraged to apply (such as Complexity, Algorithms, Operating Systems, Computer Architecture, Distributed Systems, Computer Networks). For more details on the position, please visit the Interfolio link below.

To apply, submit a cover letter, curriculum vitae, teaching philosophy, research statement, and statement of demonstrated commitment to diversity and inclusion by October 21, 2019 to the Computer Science Search Committee via Interfolio at: https://apply.interfolio.com/65044. In addition, arrange for three letters of recommendation to be submitted via Interfolio to the Computer Science Search Committee.

Applications received by October 21, 2019 will receive full consideration.

California State University, Sacramento

Tenure-Track Assistant Professor

One tenure-track assistant professor position to begin with the Fall 2020 semester. Applicants specializing in
any area of computer science will be considered. Those with a strong background in computer science or computer engineering subject areas are especially encouraged to apply. Ph.D. in Computer Science, Computer Engineering, or closely related field required by the time of the appointment.

For detailed position information, including application procedure, please see https://csus.peopleadmin.com/.

Screening will begin September 16, 2019, and remain open until filled.

AA/EEO employer. Clery Act statistics available. Mandated reporter requirements. Criminal background check will be required.

Carnegie Mellon University
School of Computer Science

Faculty Hiring

The School of Computer Science consists of seven departments, spanning a wide range of topics in computer science and the application of computers to real-world systems. Faculty positions are specific to each department, though in certain cases, joint positions are also possible.

We are seeking tenure, research, and systems track faculty candidates with a strong interest in research, an earned Ph.D., and outstanding academic credentials. Candidates for tenure track appointments should also have a strong interest in graduate and undergraduate education.

We are also seeking teaching track faculty candidates. You should have a Ph.D. in Computer Science or a related computing discipline, a background of demonstrated excellence and dedication to teaching, the ability to collaborate with other faculty in a fast-paced environment, and must be prepared to teach in a wide variety of settings, including large undergraduate lecture courses and classes delivered in non-traditional formats.

Candidates with a commitment toward building an equitable and diverse scholarly community are particularly encouraged to apply. We are very interested in applications from candidates who have a demonstrated track record in mentoring and nurturing women and students from groups traditionally underrepresented in computer science.

We will begin accepting applications beginning September 3, 2019. To ensure full consideration of your application, please submit all materials no later than December 10, 2019. 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 http://www.cs.cmu.edu/employment-scs.

For more information about the hiring priorities in a particular department, please visit a department site below:

Computational Biology Department: http://www.cbd.cmu.edu/tenure-track-faculty-positions/

Computer Science Department: https://www.csd.cs.cmu.edu/careers/faculty-hiring

Human-Computer Interaction Institute: https://hcii.cmu.edu/careers/list

Institute for Software Research: http://www.isri.cmu.edu/jobs/index.html

Language Technologies Institute: http://liti.cs.cmu.edu/news/liti-hiring

Machine Learning Department: http://www.ml.cmu.edu/Faculty_Hiring.html

Robotics Institute: http://ri.cmu.edu/about/hiring-faculty-positions/

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.
Professional Opportunities

The College of New Jersey
Tenure-Track Faculty Position in Computer Science (Assistant or Associate Professor)

The Department of Computer Science at The College of New Jersey (TCNJ) invites outstanding applications for a tenure-track Assistant or Associate Professor faculty position in computer science, to join our community starting August 2020.

Candidates must have a Ph.D. in Computer Science, or a closely related field (ABDs will be considered if the degree will be completed prior to the start date); demonstrated excellence in teaching; and a strong commitment to the education of, and research with, undergraduates.

TCNJ has a strong commitment to inclusive excellence and has a strong commitment to achieving diversity among faculty and staff. We strongly encourage applications from diverse, intersectional populations and cultures including, but not limited to, identities based on race, gender, gender expression, sexual orientation, disability, national origin, and veteran status.

College of the Holy Cross
Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at the College of the Holy Cross invites applications for a full-time tenure-track appointment in computer science beginning August 2020. All research specialties will be considered. This position carries a 3-2 teaching load with a full-salary one-semester research leave prior to tenure review, and generous sabbatical and fellowship leaves for tenured faculty. Candidates must demonstrate commitment to, and excellence in, undergraduate teaching as well as scholarly achievement. A Ph.D. in computer science or a closely related field is required.

The College of the Holy Cross uses Interfolio to collect job applications electronically. Please submit all application materials (cover letter, curriculum vitae, statements on research and teaching, transcripts, and three confidential letters of recommendation) to http://apply.interfolio.com/65560.

Final offer of employment will be contingent upon successful completion of a background investigation.

To enrich education through diversity, TCNJ is an Equal Opportunity Employer.

Columbia University
Lecturer - Computer and Data Systems

The Department of Computer Science at Columbia University in the City of New York invites applications for faculty at the rank of Lecturer in Discipline beginning in the 2019-20 or 2020-21 academic year. Lecturers in Discipline are full-time non-tenure-track faculty members whose primary responsibility is teaching. Teaching responsibilities for lecturers include courses throughout the computer science curriculum, from introductory to graduate level courses, with a typical teaching load of two courses per semester.

This particular opportunity is to hire a lecturer with a broad expertise in computer and data systems. Priority for candidates with experience teaching courses such as database systems...
Professional Opportunities

Applications should be submitted electronically at: http://pa334.peopleadmin.com/postings/3340 and include the following: a cover letter, current CV, teaching statement, brief summary of research, and three letters of recommendation. At least two of the letters of recommendation must address teaching ability. Reviews of applications will begin on July 1st, 2019, and will continue until the positions are filled. Candidates must have a PhD or its professional equivalent by the starting date of the appointment. Part-time adjunct opportunities in this area of expertise may also be available.

Columbia University is an Equal Opportunity/Affirmative Action employer -- Disability/Veteran

Columbia University
Lecturer

The Department of Computer Science at Columbia University in the City of New York invites applications for faculty at the rank of Lecturer in Discipline beginning in the 2019-20 academic year. Lecturers in Discipline are full-time non-tenure-track faculty members whose primary responsibility is teaching. The Department of Computer Science is committed to hiring outstanding teachers to support the growing needs of its exceptionally strong undergraduate and graduate programs. Teaching responsibilities for lecturers include courses throughout the computer science curriculum, from introductory to graduate level courses, with a typical teaching load of two courses per semester.

Applications should be submitted electronically at: http://pa334.peopleadmin.com/postings/1713 and include the following: a cover letter, current CV, teaching statement, brief summary of research, and three letters of recommendation. At least two of the letters of recommendation must address teaching ability. Reviews of applications are ongoing until the positions are filled. Candidates must have a PhD or its professional equivalent by the starting date of the appointment.

Columbia University is an Equal Opportunity/Affirmative Action employer -- Disability/Veteran

DePaul University
Assistant Professor in Business Analytics

The Department of Management and Entrepreneurship at DePaul University’s Driehaus College of Business invites applications for a full-time assistant professor tenure-track position in business analytics, with a focus on business analytics and data science, beginning academic year 2020-2021. Applicants should have: 1) A doctorate in management, business, computer science or related field with a specialization in business analytics; 2) A strong program of scholarly productivity consistent with the rank; and 3) Instructional capabilities at the undergraduate and graduate levels. Prior university teaching experience is preferred and candidates with prior industry experience are highly valued. We also invite applications from candidates with experience and a track record of publication in top journals seeking credit toward tenure. Responsibilities of the position will include teaching undergraduate and graduate courses in the area of business analytics, including but not limited to data science, applied statistics, data visualization, and data management maintaining a program of active scholarship, and university service. This position will contribute heavily to the leadership, growth, and reputation of the MS in Business Analytics program.

Interested candidates should apply via the DePaul job application website at https://apply.interfolio.com/65083. The posting has additional job details. Applicants will be asked to submit a CV, cover letter, official transcripts, teaching statement, research statement, sample publications, teaching evaluations, and contact information for references. The position will remain open until filled and review of applications will begin immediately.
Department faculty will also be available for meetings with select candidates at the Academy of Management in Boston. Application materials are due no later than October 1. Please direct any questions to Dr. Grace Lemmon (Search Committee Chair) at glemmon@depaul.edu. DePaul University is an equal opportunity and affirmative action employer and requires compliance with the Immigration and Control Act of 1986.

Emory University
Assistant Professor, Human Cognition

Emory University, Department of Psychology invites applications for a tenure-track position at the Assistant Professor level in Human Cognition. We are seeking candidates whose research crosses traditional disciplinary boundaries, and who have a strong commitment to undergraduate and graduate teaching and mentoring. Candidates whose research programs use Artificial Intelligence, Machine Learning, and/or Natural Language Processing methods to address fundamental questions in perception, language, reasoning, memory, decision-making, and social cognition are especially encouraged to apply. Ph.D. in psychology, neuroscience, computer science, or a related field required.

Candidates should submit applications via Interfolio at https://apply.interfolio.com/65505. Please include a CV, a research statement, a teaching statement, two or three representative publications, and three letters of recommendation. A brief diversity statement that addresses past activities and future plans to advance equity, inclusion, and diversity in your professional career is also required.

The deadline for applications is October 1, 2019, and applications received after this date will not be considered.

Emory University (Atlanta, GA) is an equal employment opportunity and affirmative action employer. Women, minorities, people with disabilities and veterans are strongly encouraged to apply.

Emory University
Multiple Tenure-Track Faculty Positions

The Computer Science Department at Emory University in Atlanta, Georgia invites applications for Multiple Tenure-Track Faculty Positions from exceptional candidates with outstanding research and teaching records. Openings are at the beginning or advanced Assistant and Associate Professor levels, but truly eminent scholars at all ranks will be considered. Applicants must have a PhD in Computer Science or a closely related field.

Successful candidates will join the vibrant Emory CS department and enhance our current strengths in: Intelligent Systems (artificial intelligence, machine learning, natural language processing, information retrieval, text and data mining, human-computer interaction, and their applications). and Data Centric Computing (systems design, big data analytics, high-performance computing, storage systems, data privacy and security). We also seek new expertise in quantum computing, extreme scale systems, and fields that strengthen connections to Emory scholarship, particularly in the Health or Medical Sciences.

We especially welcome inquiries from leading scholars interested in establishing a faculty cluster at Emory to complement our research and educational strengths, and enhance diversity.

Emory CS is a dynamic, close-knit department with high research activity in several areas, and a stellar faculty that is passionate about scholarship, teaching, and societal impact. The department is committed to transforming the world through computing, prides itself on a family-friendly and supportive dual-career environment, and engages deeply with industry, alumni, and community.

Emory University is a highly ranked private institution engaged in outstanding research and education. A remarkably collegial spirit prevails across departments and schools, making the university a leader in collaborative interdisciplinary endeavors while advancing knowledge in fundamental and applied domains. Emory is highly ranked among America’s Best Employers for Women and Best Employers for Diversity, and fosters a culture of inclusivity and cooperation. The campus is an integral part of the energetic Atlanta, GA metropolitan area, offering a variety of cultural, social, and recreational
opportunities, a mild climate, and unmatched accessibility.

Applications specifying one or more of the above areas and comprising a CV, research and teaching statements, and three letters of recommendation directly from recommenders, should be submitted via Interfolio https://apply.interfolio.com/66304. In a separate statement, please also outline your interests in broadening participation and increasing diversity in computing.

Informal inquiries are welcome via email to cssearch2019@emory.edu. Application review starts October 15, 2019 and will continue until all positions are filled.

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

Furman University
Open-Rank Tenure Track Professor in Computer Science

The Department of Computer Science at Furman University invites applications for a tenure track position at the Assistant, Associate, or Full rank to begin August 1, 2020. Candidates must have a Ph.D. in Computer Science or a closely related field, and all areas of specialty will be considered. The position requires teaching excellence, scholarly and professional activity involving undergraduates, effective institutional service, and a willingness to work with colleagues across disciplines.

The Department of Computer Science confers degrees with majors in Computer Science (B.S.) and Information Technology (B.S. and B.A.), an innovative, interdisciplinary program of study. The Department values teaching and research projects that bridge Computer Science with other disciplines, efforts to provide students with learning opportunities outside the classroom and in the community, and contributing to Furman’s university-wide First Year Writing Seminar program. Furman Computer Science professors mentor undergraduates both formally and informally, and work to build a welcoming student-faculty community.

Furman University is an selective private liberal arts and sciences college committed to helping students develop intellectually, personally, and interpersonally and providing the practical skills necessary to succeed in a rapidly-changing world. Furman professors are exceptional teacher-scholars who mentor undergraduate students within a campus community that values and encourages diverse ideas and perspectives. Our recently-launched strategic vision, The Furman Advantage, promises students an individualized four-year pathway facilitated by team of mentors and infused with a rich and varied set of high-impact experiences outside the classroom that include undergraduate research, study away, internships, community-focused learning, and opportunities to engage across disciplines.

Furman is an Equal Opportunity Employer committed to increasing the diversity of its faculty and staff. The University aspires to create a community of people representing a multiplicity of identities including gender, race, religion, spiritual belief, sexual orientation, geographic origin, socioeconomic background, ideology, world view, and varied abilities. Domestic partners of employees are eligible for comprehensive benefits.

The Furman student experience is supported by a rich network of centers and institutes that includes The Riley Institute, The David E. Shi Center for Sustainability, The Institute for the Advancement of Community Health, The Rinker Center for Study Away and International Education, The Cothran Center for Vocational Exploration, The Shucker Center for Leadership Development, The Malone Center for Career Engagement, and our newest addition, The Center for Inclusive Communities.

Furman University is located in Greenville, South Carolina, which is one of the fastest-growing cities in the Southeast and is ranked among “America’s Ten Best” by Forbes Magazine. The charming downtown features excellent restaurants, in-town parks, shops, museums, galleries, music venues, and theaters. The city also has excellent public and private schools and a vibrant international community. A 20-mile bike and running trail connects the university to Greenville and to Travelers Rest, which was named “one of America’s
Professional Opportunities

coolest small towns.” The surrounding area abounds with outdoor recreational activities and has some of the most beautiful lakes, rivers, and mountains in the country. Greenville is within easy reach of the Blue Ridge Mountains and Atlantic beaches. The newly renovated Greenville-Spartanburg Airport, located just 25 minutes from downtown, runs daily flights to major cities and airline hubs. Greenville is 2 1/2 hours from Atlanta and only one hour from Asheville, North Carolina. It is an ideal place to live and work.

Applicants should submit a curriculum vitae, cover letter, statement of teaching philosophy and experience, statement of research interests, an official copy of most recent transcripts, and a diversity statement that describes how your teaching, scholarship, mentoring and/or service might contribute to a liberal arts college community that includes a commitment to diversity as one of its core values. Three letters of recommendation should be sent separately. Review of applications will continue until the position is filled, but to ensure full consideration, applications should be completed by November 15, 2019. Questions can be directed to the chair of the Department of Computer Science, Dr. Kevin Treu, at kevin.treu@furman.edu. To submit an application and letters of recommendation, please visit https://furman.wd5.myworkdayjobs.com/en-US/Furman_Careers/job/Main-Campus/Assistant-Professor-Computer-Science-2_R000685

Harvard Business School
Technology and Operations Management Unit
Reference Key: TOM Unit
Deadline: November 19, 2019

The Technology and Operations Management Unit of Harvard Business School seeks candidates for a full-time tenure-track Assistant Professor position starting July 2020.

Applicants should have research interests in new product development, economics and management of innovation, economics of information technology, digital transformation, applied AI, data science and analytics in business contexts, operations management in service, retailing, and manufacturing contexts, digital operations and analytics, or supply chain management. Applicants should have recently graduated with a PhD (forthcoming or in the last 3 years) with strong, demonstrated potential and interest to conduct research at the forefront of their field.

To be considered, applicants should submit a complete job packet by November 19, 2019 and should include a current curriculum vitae, job market paper, research statement, teaching statement and copies of other publications and working papers, and three letters of recommendation. All application materials should be uploaded by the closing date at http://www.hbs.edu/research/faculty-recruiting/

Harvard University
Tenure track faculty position in Computer Science

The Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) seeks applicants for a position at the tenure-track level in Computer Science, with an expected start date of July 1, 2020.

We are accepting applications in all areas of Computer Science. Machine learning, natural language processing, systems, systems security, and algorithms are areas of special interest, but candidates in any area are invited to apply.

We seek candidates who have a strong research record and a commitment to undergraduate and graduate teaching and training. We particularly encourage applications from historically underrepresented groups, including women and minorities.

Computer Science at Harvard benefits from outstanding undergraduate and graduate students, world-leading faculty, an excellent location, significant industrial collaboration, and substantial support from SEAS. Information about Harvard’s current faculty, research, and educational
programs in computer science is available at [http://www.seas.harvard.edu/computer-science](http://www.seas.harvard.edu/computer-science).

The associated Institute for Applied Computational Science ([http://iacs.seas.harvard.edu](http://iacs.seas.harvard.edu)) and Data Science Initiative ([https://datascience.harvard.edu](https://datascience.harvard.edu)) foster connections among computer science, applied math, data science, and various domain sciences at Harvard through its graduate programs and events.

A doctorate or terminal degree in Computer Science or a related field is required by the expected start date.

Required application documents include a cover letter, CV, a statement of research interests, a teaching statement, and up to three representative papers. In addition, we ask for a statement describing efforts to encourage diversity, inclusion, and belonging, including past, current, and anticipated future contributions in these areas. Candidates are also required to submit the names and contact information for at least three and up to five references, and the application is complete only when three letters have been submitted. At least one letter must come from someone who has not served as the candidate’s undergraduate, graduate, or postdoctoral advisor.

We encourage candidates to apply by December 6, 2019, but will continue to review applications until the position is filled. Applicants can apply online at [http://academicpositions.harvard.edu/postings/9134](http://academicpositions.harvard.edu/postings/9134).

Harvard is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions, or any other characteristic protected by law.

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**The Hong Kong University of Science and Technology**

**Job Title:** Faculty Positions  
**Department:** Department of Computer Science and Engineering  
**Job ID:** 4791

**Job Posting Details**

The Department of Computer Science and Engineering of HKUST ([https://www.cse.ust.hk/](https://www.cse.ust.hk/)) is inviting applications for substantiation-track faculty openings at all levels of Professor, Associate Professor and Assistant Professor for the 2020-2021 academic year. We are looking for candidates with outstanding research record in all computer science and engineering areas, with priority given to candidates in research areas transcending two or more of the following areas:

- Artificial intelligence and data science  
- Computer architecture and systems  
- Information security and privacy  
- Software engineering and programming languages

We also expect close research collaboration with faculty and students of the new HKUST (Guangzhou) campus being planned in such strategic research areas as artificial intelligence, data science and analytics, Internet of things, and robotics.

Applicants should have an earned PhD degree. Applicants at junior level should have demonstrated potential in teaching and research.

The department has more than 50 faculty members, recruited from major universities and research institutions around the world, and more than 1,800 students (including about 550 postgraduate students). The medium of instruction is English. The department has often been ranked high among the best computer science and engineering departments with a much longer history in major university rankings. HKUST is committed to increasing the diversity of its faculty, and has a range of family-friendly policies in place.

Salary is highly competitive and will be commensurate with qualifications and experience. Fringe benefits include medical/dental benefits and annual leave. Housing will also be provided where applicable. For appointment at Assistant Professor level, initial appointment will normally be on a three-year contract. A gratuity will be payable upon completion of contract.

**Application Procedure**

Applications including a cover letter, a curriculum vitae (including the names and contact information of at least three referees), a research statement and a
teaching statement (all in PDF format) should be sent as attachments through e-mail to csrecruit@cse.ust.hk. Priority will be given to applications received by Sunday, 15 December 2019. Applicants will be promptly acknowledged through e-mail upon receiving the electronic application material. Applications will be processed immediately when they are received and interviews will be arranged for shortlisted applicants.

(Information provided by applicants will be used for recruitment and other employment-related purposes.)

**IST Austria**

**Assistant Professor (tenure-track) and Professor positions in computer science**

We invite applications in all areas of computer science for several open positions.

Female researchers are strongly encouraged to apply.

In addition, we especially welcome applications in

**Data science**, including statistics, optimization, machine learning, bioinformatics, computational science, numerical methods, simulation, and visualization

**Computer systems**, including distributed and operating systems, databases, networks, and robotics

We offer:

- Highly international and interdisciplinary research environment
- State-of the art facilities and a wide range of scientific support services
- Competitive start-up package and salary
- Guaranteed annual base funding
- Support for acquiring third-party funds
- Wide portfolio of career support
- Child-care facilities and support on campus

IST Austria (www.ist.ac.at) is an international institute dedicated to basic research and graduate education in the natural, mathematical, and computational sciences. The Institute fosters an interactive, collegial, and supportive atmosphere, sharing space and resources between research groups whenever possible, and facilitating cross-disciplinary collaborations. Our PhD program involves a multi-disciplinary course schedule and rotations in research groups. We hire scholars from diverse international backgrounds and our working language is English. The campus of IST Austria is located close to Vienna, one of the most livable cities in the world.

Assistant professors receive independent group leader positions with an initial contract of six years, at the end of which they are reviewed by international peers. If the evaluation is positive, an assistant professor is promoted to a tenured professor.

Candidates for tenured positions are distinguished scientists in their respective research fields and have at least six years of experience in leading a research group.

Please apply online at: www.ist.ac.at/jobs/faculty/

The closing date for applications is October 31, 2019.

IST Austria values diversity and is committed to equal opportunity.

**Lake Superior State University**

**Assistant/Associate Professor of Computer Science-Tenure Track**

Lake Superior State University seeks candidates for a tenure-track position in Computer Science or Computer Networking. Applicants must have expertise in the following: databases (SQL required), computer networking, and system administration/system management.

A detailed job description and application are available at our website https://jobs.lssu.edu.

For questions please contact Human Resources at humanresoures@lssu.edu or 906-635-2213. Lake Superior State University, 650 W. Easterday Ave, Sault Ste Marie, MI

**McMaster University**

**Contractually Limited Appointment in Computing and Software**

The Faculty of Engineering at McMaster University invites applications from outstanding scholars for one Contractually Limited Appointment (CLA) position at the rank of Assistant Professor in the
Department of Computing and Software. The appointment will begin on July 1, 2020, or shortly thereafter. The duration of the contract is 3 years, with the potential for a subsequent 3-year renewal.

McMaster University is committed to building an inclusive community dedicated to teaching and learning within a diverse environment. The Faculty of Engineering seeks to attract an active, culturally and academically diverse faculty member of the highest caliber and welcomes applications from highly qualified candidates with skills and abilities that will contribute to the values of equity, diversity and inclusion in research, teaching, and the workplace.

The Department of Computing and Software is one of the top departments for computing in Canada. We have 25 faculty members with expertise in computer systems, software engineering, theoretical computer science, security, privacy, data analytics, scientific computing, and bioinformatics. The department mentors over 900 undergraduate students in three programs: software engineering, computer science, and mechatronics engineering. It also mentors more than 120 graduate students in masters and doctoral programs in computer science and software engineering.

The Department seeks to recruit an excellent teacher with interest and experience in experiential learning and innovative ways of teaching computing. Successful candidates will be expected to:

- Teach introductory undergraduate Computer Science and Software Engineering courses.
- Contribute towards improving the delivery of the Department’s undergraduate programs, e.g., by mentoring software engineering, computer science, and mechatronics engineering students and introducing new teaching techniques.
- Participate in the ongoing development of curricula for our Computer Science B.A.Sc. program, Software Engineering B.Eng. program, and Mechatronics Engineering B.Eng. program.

Registration or eligibility for registration by the Professional Engineers of Ontario will be considered an asset. Salary and rank are commensurate with experience and qualifications.

Applicants will hold a doctorate in computer science, software engineering, or a related discipline, and must demonstrate a successful record of teaching, reflected in outstanding teaching records. Evidence of leadership skills, excellence in service, and a demonstrated ability to work effectively with individuals from diverse communities and cultures is also required.

McMaster’s large, attractive campus, the interior of which is open only to pedestrians and cyclists, is at the western end of Lake Ontario. The University is minutes from downtown Hamilton, a city rich in history and culture with a vibrant arts community. Nearby recreational and conservation attractions include Cootes Paradise, the Bruce Trail, the Niagara Escarpment, the Waterfront Trail, and the Royal Botanical Gardens. Surrounded by spectacular nature and unique neighborhoods, Hamilton is ideally located halfway between Toronto and Niagara Falls.

The Faculty of Engineering at McMaster University has a reputation for innovative programs, cutting-edge research, leading faculty, and aspiring students. It has earned a strong reputation as a centre for academic excellence and innovation. The Faculty has over 180 faculty members, along with approximately 5,000 undergraduate and 1,000 graduate students. The Faculty of Engineering promotes a nurturing and inclusive environment where supportive resources are made accessible to assist with on-boarding and opportunities are made available for continuous personal and professional growth.

In addition to competitive salaries, McMaster University provides one of the best benefits packages amongst Canadian universities, which includes supplementary medical and dental coverage, long term disability insurance and family-friendly supports such as a childcare allowance, and funded pregnancy/parental leaves. University policies include provisions for such leaves in annual merit evaluations.

Interested applicants should submit a letter of interest, curriculum vitae, a teaching dossier that includes a teaching philosophy, as well as evidence of teaching experience and effectiveness, along with the names of at least four references.
Professional Opportunities

that speak to academic and teaching performance (with postal and email addresses). In your teaching statements, please also describe how you will further equity and inclusion to advance McMaster University's commitment to fostering a culture that embraces and promotes the rich diversity of our campus community. Some current examples of activities include diversity-related programming, contributions to student success, committee work, and appropriate mentoring of individuals, especially those from groups that have been historically marginalized or disadvantaged.

Complete applications must be made online at www.workingatmcmaster.ca/careers (Faculty Postings, Job #27713) to the attention of:

Dr. Mark Lawford, Professor & Acting Chair
Department of Computing and Software
1280 Main Street West
McMaster University,
Hamilton, ON Canada L8S 4L7

Complete applications that are received by November 1, 2019 will receive full consideration. Review of applications will continue until the position is filled. The effective date of appointment is negotiable, but July 1, 2020 is preferred. All applicants will receive an on-line confirmation of receipt of their application; however, only short-listed applicants will be contacted for interviews.

All qualified candidates are encouraged to apply; however, Canadian and Permanent Residents will be given priority. If you require any form of accommodation throughout the recruitment and selection procedure, please contact the Human Resources Service Centre at 905-525-9140 ext. 222-HR (22247).

To comply with the Government of Canada’s reporting requirements, the University is obliged to gather information about applicants’ status as either Permanent Residents of Canada or Canadian citizens. Applicants need not identify their country of origin or current citizenship; however, all applications must include one of the following statements:

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

In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity. The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. The University seeks qualified candidates who share our commitment to equity, diversity, and inclusion. While all qualified candidates are invited to apply, we particularly welcome applications from women, persons with disabilities, First Nations, Métis and Inuit peoples, members of visible minorities, and LGBTQ+ persons. Job applicants requiring accommodations to participate in the hiring process should contact the Human Resources Service Centre at 905-525-9140 ext. 222-HR (22247) to communicate accommodation needs.

McMaster University
Teaching-Track Faculty Position in Computing and Software

The Faculty of Engineering at McMaster University invites applications from outstanding scholars for one teaching-track faculty position at the rank of Assistant Professor in the Department of Computing and Software. The appointment will begin on July 1, 2020, or shortly thereafter.

McMaster University is committed to building an inclusive community dedicated to teaching and learning within a diverse environment. The Faculty of Engineering seeks to attract an active, culturally and academically diverse faculty member of the highest caliber and welcomes applications from highly qualified candidates with skills and abilities that will contribute to the values of equity, diversity and inclusion in research, teaching, and the workplace.

The Department of Computing and Software is one of the top departments for computing in Canada. We have 25 faculty members with expertise in computer systems, software engineering, theoretical computer science, security, privacy, data analytics, scientific computing, and bioinformatics. The department mentors over 900 undergraduate students in three
Professional Opportunities

The Department seeks to recruit an excellent teacher with interest and experience in experiential learning and innovative ways of teaching computing. Successful candidates will be expected to:

- Teach introductory undergraduate courses in Computer Science and Software Engineering, as well as courses within the common first-year engineering program (Engineering I).
- Contribute towards improving the delivery of the Department’s undergraduate programs, e.g., by mentoring software engineering, computer science, and mechatronics engineering students and introducing new teaching techniques.
- Participate in the ongoing development of curricula for our Computer Science B.A.Sc. program, Software Engineering B.Eng. program, Mechatronics Engineering B.Eng. program and Engineering I program.
- Develop a pedagogy-related research program in computing.

McMaster’s large, attractive campus, the interior of which is open only to pedestrians and cyclists, is at the western end of Lake Ontario. The University is minutes from downtown Hamilton, a city rich in history and culture with a vibrant arts community. Nearby recreational and conservation attractions include Cootes Paradise, the Bruce Trail, the Niagara Escarpment, the Waterfront Trail, and the Royal Botanical Gardens. Surrounded by spectacular nature and unique neighbourhoods, Hamilton is ideally located halfway between Toronto and Niagara Falls.

Interested applicants should submit a letter of interest, curriculum vitae, a teaching dossier that includes a teaching philosophy, as well as evidence of teaching experience and effectiveness, along with the names of at least four references that speak to academic and teaching performance (with postal and email addresses). In your teaching statements, please also describe how you will further equity and inclusion to advance McMaster University’s commitment to fostering a culture that embraces and promotes the rich diversity of our campus community. Some current examples of activities include diversity-related programming, contributions to

programs: software engineering, computer science, and mechatronics engineering. It also mentors more than 120 graduate students in masters and doctoral programs in computer science and software engineering.

Registration, or eligibility for registration, by the Professional Engineers of Ontario is required. Salary and rank are commensurate with experience and qualifications.

Applicants will hold a doctorate in computer science, software engineering, or a related discipline. Alternatively, applicants will hold a doctorate in education, with a focus on computing. Applicants must demonstrate a successful record of teaching, reflected in outstanding teaching records. Applicants are expected to have demonstrated successful pedagogical research, or to show potential for successful pedagogical research. Evidence of leadership skills, excellence in service, and a demonstrated ability to work effectively with individuals from diverse communities and cultures is also required.

Applicants must demonstrate a successful record of teaching, reflected in outstanding teaching records. Applicants are expected to have demonstrated successful pedagogical research, or to show potential for successful pedagogical research. Evidence of leadership skills, excellence in service, and a demonstrated ability to work effectively with individuals from diverse communities and cultures is also required.

In addition to competitive salaries, McMaster University provides one of the best benefit packages amongst Canadian universities, which includes supplementary medical and dental coverage, a defined benefits pension plan, long term disability insurance and family-friendly supports such as a child care allowance, and funded pregnancy/parental leaves. University policies include provisions for such leaves in the tenure process and in annual merit evaluations. The Faculty of Engineering has additional supports in place, such as funding from the Engineering Life Event Fund, to help maintain continuity in scholarship during pregnancy/parental, medical, or family-related leaves.

Interested applicants should submit a letter of interest, curriculum vitae, teaching dossier that includes a teaching philosophy, as well as evidence of teaching experience and effectiveness, along with the names of at least four references that speak to academic and teaching performance (with postal and email addresses). In your teaching statements, please also describe how you will further equity and inclusion to advance McMaster University’s commitment to fostering a culture that embraces and promotes the rich diversity of our campus community. Some current examples of activities include diversity-related programming, contributions to
student success, committee work, and appropriate mentoring of individuals, especially those from groups that have been historically marginalized or disadvantaged.

Complete applications must be made online at www.workingatmcmaster.ca/careers (Faculty Postings, Job #27712) to the attention of:

Dr. Mark Lawford, Professor & Acting Chair
Department of Computing and Software
1280 Main Street West
McMaster University,
Hamilton, ON Canada L8S 4L7

Complete applications that are received by November 1, 2019 will receive full consideration. Review of applications will continue until the position is filled. The effective date of appointment is negotiable, but July 1, 2020 is preferred. All applicants will receive an on-line confirmation of receipt of their application; however, only short-listed applicants will be contacted for interviews.

All qualified candidates are encouraged to apply; however, Canadian and Permanent Residents will be given priority. If you require any form of accommodation throughout the recruitment and selection procedure, please contact the Human Resources Service Centre at 905-525-9140 ext. 222-HR (22247). To comply with the Government of Canada’s reporting requirements, the University is obliged to gather information about applicants’ status as either Permanent Residents of Canada or Canadian citizens. Applicants need not identify their country of origin or current citizenship; however, all applications must include one of the following statements:

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

In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity. The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. The University seeks qualified candidates who share our commitment to equity, diversity, and inclusion. While all qualified candidates are invited to apply, we particularly welcome applications from women, persons with disabilities, First Nations, Métis and Inuit peoples, members of visible minorities, and LGBTQ+ persons. Job applicants requiring accommodations to participate in the hiring process should contact the Human Resources Service Centre at 905-525-9140 ext. 222-HR (22247) to communicate accommodation needs.

McMaster University
Tenure-Track Faculty Positions, Computing and Software

The Faculty of Engineering at McMaster University invites applications from outstanding scholars for multiple tenure-track faculty positions at the rank of Assistant Professor in the Department of Computing and Software; however, exceptional candidates may be considered at the rank of Associate Professor. The appointment will begin on July 1, 2020, or shortly thereafter.

McMaster University is committed to building an inclusive community dedicated to teaching and learning within a diverse environment. The Faculty of Engineering seeks to attract active, culturally and academically diverse faculty members of the highest caliber and welcomes applications from highly qualified candidates with skills and abilities that will contribute to the values of equity, diversity and inclusion in research, teaching, and the workplace.

The Department of Computing and Software is one of the top departments for computing in Canada. We have 25 faculty members with expertise in computer systems, software engineering, theoretical computer science, security, privacy, data analytics, scientific computing, and bioinformatics. The department mentors over 900 undergraduate students in three programs: software engineering, computer science, and mechatronics engineering. It also mentors more than 120 graduate students in masters and doctoral programs in computer science and software engineering.

Qualified candidates in the following areas are strongly encouraged to apply: machine learning and its applications, smart systems, data analytics, security and privacy, and software engineering.
Exceptional candidates in related areas will also be considered. Applicants will hold a doctorate in computer science, software engineering, or a related discipline, and must demonstrate a successful record of research, reflected in extramural grant acquisition and publication in high quality peer-reviewed venues. The successful candidate will teach both undergraduate and graduate level courses. They will also be expected to establish a strong externally-funded research program, supervise graduate students, and foster existing or new collaborations with other departments and faculties. Evidence of leadership skills, excellence in service, and a demonstrated ability to work effectively with individuals from diverse communities and cultures is also required. Registration, or eligibility for registration, by the Professional Engineers of Ontario is required.

The successful candidates will have the opportunity to engage with faculty members and research staff associated with McMaster’s world-class research and teaching laboratory facilities in software and data intensive systems and data analytics areas, including: the McMaster Centre for Software Certification (McSCert), the McMaster Automotive Resource Centre (MARC), the Shared Hierarchical Academic Research Computing Network (SharcNet), Advanced Optimization Laboratory (AdvOL), Computing Infrastructure Research Centre (CIRC), and the MacData Institute.

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The Faculty of Engineering at McMaster University has a reputation for innovative programs, cutting-edge research, leading faculty, and aspiring students. It has earned a strong reputation as a centre for academic excellence and innovation. The Faculty has over 180 faculty members, along with approximately 5,000 undergraduate and 1,000 graduate students. The Faculty of Engineering promotes a nurturing and inclusive environment where supportive resources are made accessible to assist with onboarding and opportunities are made available for continuous personal and professional growth.

Interested applicants should submit a letter of interest, curriculum vitae, a research dossier that includes a statement of research interests and plans, a selection of research publications, a teaching dossier that includes a teaching philosophy, as well as evidence of teaching experience and effectiveness, along with the names of at least four references that speak to academic and research performance (with postal and email addresses). In both your research and teaching statements, please also describe how you will further equity and inclusion to advance McMaster University’s commitment to fostering a culture that embraces and promotes the rich diversity of our campus community. Some current examples of activities include diversity-related programming, contributions to student success, committee work, and appropriate mentoring of individuals, especially those from groups that have been historically marginalized or disadvantaged.

Complete applications must be made online at www.workingatmcmaster.ca/careers (Faculty Postings, Job # 26584) to the attention of:

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

Complete applications that are received by September 1, 2019 will receive full consideration. Review of applications will continue until the positions are filled. The effective date of appointment is negotiable, but July 1, 2020 is preferred. All applicants will receive an on-line confirmation of receipt of their application; however, only short-listed applicants will be contacted for interviews.

All qualified candidates are encouraged to apply, however, Canadian and Permanent Residents will be given priority. If you require any form of accommodation throughout the recruitment and selection procedure, please contact the Human Resources Service Centre at 905-525-9140 ext. 222-47.

All qualified candidates are encouraged to apply, however, Canadian and Permanent Residents will be given priority. If you require any form of accommodation throughout the recruitment and selection procedure, please contact the Human Resources Service Centre at 905-525-9140 ext. 222-47.
To comply with the Government of Canada’s reporting requirements, the University is obliged to gather information about applicants’ status as either Permanent Residents of Canada or Canadian citizens. Applicants need not identify their country of origin or current citizenship; however, all applications must include one of the following statements:

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

In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity. The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. The University seeks qualified candidates who share our commitment to equity, diversity, and inclusion. While all qualified candidates are invited to apply, we particularly welcome applications from women, persons with disabilities, First Nations, Métis and Inuit peoples, members of visible minorities, and LGBTQ+ persons. Job applicants requiring accommodations to participate in the hiring process should contact the Human Resources Service Centre at 905-525-9140 ext. 222-47 (22247) to communicate accommodation needs.

### The Medical College of Wisconsin, Inc.

#### Data Science Faculty

The Division of Biostatistics at the Medical College of Wisconsin (MCW) is seeking to fill an open rank tenure-track faculty position in Data Science beginning September 2019. Responsibilities include teaching and mentoring graduate students, conducting methodological research in data science, machine learning, and/or AI, and engaging in collaborative research with the Center for International Blood and Marrow Transplant Research (CIBMTR), which houses an international clinical outcomes database in transplantation. Ph.D. in a Data Science related field, including Computer Science, Bioinformatics or Medical Informatics, Biostatistics or Statistics, is required.

To apply, email a cover letter, CV, research statement, graduate transcripts (if a recent graduate) and three reference letters to jward@mcw.edu.

### Monash University

#### Professor or Associate Professor – Machine Learning

With leading academics and world-class resources, combined with a ranking in the top 100 universities worldwide, Monash University offers all you need to build a brighter future.

Monash’s Faculty of Information Technology is the only dedicated IT faculty in Australia, and one of only a handful in the world and aims to lead global IT research and education. Our strong reputation and international profile attracts the best students worldwide.

#### The Opportunity

The world-class Machine Learning group is at the forefront of theoretical and applied Machine Learning, we are leading and conducting research to meet real-world problems.

The group is expanding further and we will be appointing at either Level D (Associate Professor) or Level E (Professor) and are looking for recognised experts in Machine Learning particularly in the areas of natural language analytics, deep learning, or image/vision processing.

### Montanna Tech

#### Assistant Professor

The Department of Computer Science at Montana Tech is seeking qualified applicants for two tenure track positions at the Assistant Professor level with expertise in software engineering and/or computer science. One position start date is January 1, 2020 (contingent on funding) and the other is August 15, 2020.

### Enquiries

Mr Richard Shields, Managing Partner, Robertson Search, +61 3 8610 6135, Richards@RobertsonSearch.com.au

### Applications

Applications close on Friday 13 September 2019, 11:55pm AEST
Responsibilities include teaching software engineering, computer science and data science at all undergraduate levels, active scholarship, and service to the department and college. An earned Ph.D. in Software Engineering, Computer Science, and/or a closely related field with significant experience in the aforementioned areas is preferred, but an ABD (completion of Ph.D. required within one year of hire) will be considered. Preferred qualifications for this position include: (1) prior university level teaching experience, (2) evidence of ongoing scholarly activity, (3) experience in software engineering, (4) experience in security, (5) industry experience, and/or (6) experience in data science. The Department of Computer Science has 5 full-time faculty and approximately 70 majors. The department offers undergraduate degrees in Software Engineering, Computer Science, and Data Science. We also offer a graduate certificate in Computational Science. Montana Tech is a designated special focus university in STEM with a reputation for excellence located in the heart of the Rocky Mountains offering outstanding outdoor recreational opportunities.

For more information visit https://montanatechuniversity.applytojob.com/apply. EEO/AA

**Mount Holyoke College**

**Assistant Professor of Computer Science**

Mount Holyoke College invites applications for a tenure track Assistant Professor position in the Computer Science Department, to begin in fall 2020. The department currently has 6.5 tenure-track faculty and 1.5 visiting faculty, 3 lab instructors, and a systems administrator. CS is currently the largest major at the College with increasing interdisciplinary connections across campus and a vibrant student community. We welcome applications in all specialties, especially systems, cybersecurity, graphics, HCI, and visualization. Compelling candidates above the assistant rank will be considered. The applicant should have a strong commitment to undergraduate teaching, and a research program that can easily accommodate and encourage undergraduates. For more details on the position, please visit the link below.

Applications must be made online at https://jobs.mtholyoke.edu by submitting a CV and three statements concerning (1) teaching philosophy, (2) research plans, and (3) mentoring a diverse student body. Review of applications will begin on October 15 and continue until the position is filled. For more information, please contact Valerie Barr, vbarr@mtholyoke.edu.

**National University of Singapore**

**Sung Kah Kay Assistant Professor in All Areas of Computer Science**

The Department of Computer Science at the National University of Singapore (NUS) invites applications for the Sung Kah Kay Assistant Professorship. Applicants can be in any area of computer science. This prestigious chair position was set up by the family and friends of the late Assistant Professor Sung Kah Kay after his untimely demise early in his career at NUS. Candidates should be early in their academic careers and yet demonstrate outstanding research potential, and a strong commitment to teaching.

The Department enjoys ample research funding, moderate teaching loads, excellent facilities, and extensive international collaborations. We have a full range of faculty covering all major research areas in computer science and boasts a thriving PhD program that attracts the brightest students from the region and beyond.

More information is available at www.comp.nus.edu.sg/careers

NUS is an equal opportunity employer that offers highly competitive salaries, and is situated in Singapore, an English-speaking cosmopolitan city that is a melting pot of many cultures, both the east and the west. Singapore offers high-quality education and healthcare at all levels, as well as very low tax rates.

**Application Details:**

- Submit the following documents (in a single PDF) online via: https://faces.comp.nus.edu.sg
  - A cover letter that indicates the position applied for and the main research interests
  - Curriculum Vitae
  - A teaching statement
  - A research statement
North Carolina State University

Goodnight Distinguished Chair in Quantum Computing
Department of Electrical & Computer Engineering

The Department of Electrical and Computer Engineering (ECE) invites applications and nominations for the Goodnight Distinguished Chair in Quantum Computing. The appointment to this endowed chair will help lead the growth of a multidisciplinary university activity synergistic with the IBM Q Hub at NC State. http://quantum.ncsu.edu. The appointment will be at the tenured, Full Professor level, and all areas of quantum computing will be considered. The successful candidate is expected to build an internationally recognized research program, demonstrate ability to attract external funding, teach courses at the undergraduate and graduate level, and is expected to serve as research adviser for doctoral students.

Candidates must possess a Ph.D. or equivalent in electrical or computer engineering, computer science, physics or a related discipline at the time of appointment. Inclusiveness and diversity are integral to NC State’s commitment to excellence in research, engagement, and education. We are particularly interested in candidates who have demonstrated experience engaging with diversity through activities such as fostering an inclusive environment, working with students from diverse backgrounds, or incorporating diverse perspectives in research.

The ECE Department is one of the top 10 suppliers of ECE talent at the BS level in the US, and also ranks among the top ECE Departments in total annual research expenditures (ASEE). The department is located in state-of-the-art facilities on NC State’s Centennial Campus. Candidates can obtain information about the department and its research programs, as well as more detail about the position advertised at http://www.ece.ncsu.edu.

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

Applications will be reviewed as they are received. Applicants should submit the following online at https://jobs.ncsu.edu/postings/120370 (reference position number 00005071): Cover Letter, Curriculum Vitae, Research Statement, Teaching Statement, and names and complete contact information of four references, including email addresses and phone numbers. Inquiries may be sent via email to the Faculty Search Committee Chair, at ecefacultyhire@ncsu.edu.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.

If you have general questions about the application process, you may contact Human Resources at (919) 515-2135 or workatncstate@ncsu.edu. Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148.

Occidental College

Department of Computer Science
Tenure-line Computational Scientist

Come join a growing computer science department! Occidental College, located in Los Angeles, is a four-year liberal arts college that emphasizes interdisciplinary connections and community engagement. In our two-year-old computer science department,
our majors are over 50% women, over 20% students of color, and over 35% Pell-eligible students, demonstrating our commitment to access and excellence.

Applicants should have a Ph.D. in Computer Science or a related computational field and a strong commitment to educating undergraduates through teaching and research. The successful candidate is expected to:

1. teach introductory and advanced courses in computer science;
2. offer additional courses in computer science to enhance our current offerings;
3. develop a rigorous research program involving undergraduates;
4. advise students across the College who may be interested in computing;
5. teach in the freshman cultural studies program;
6. participate in regular service to the community, department, and the College.

See the full job posting here: [www.oxy.edu/computer-science-faculty-position](http://www.oxy.edu/computer-science-faculty-position)

### Olin College of Engineering

**President**

The Franklin W. Olin College of Engineering in Needham, Massachusetts seeks an accomplished leader as its second president.

In just 20 years, Olin has become known worldwide for reimagining STEM education and redefining students’ potential for positive impact.

**The Open University of Israel**

**Faculty Opening in Computer Science**

The Department of Mathematics and Computer Science at the Open University of Israel invites applications in all areas of computer science for senior faculty positions at all ranks (assistant professor, associate professor, professor) [https://www.openu.ac.il/about/departments/academic_secretary/messages/FacultyOpeningsCS.aspx](https://www.openu.ac.il/about/departments/academic_secretary/messages/FacultyOpeningsCS.aspx)

### Oregon State University

**Faculty Positions In Artificial Intelligence**

**College of Engineering**

The School of Electrical Engineering and Computer Science at Oregon State University invites applications for full-time, nine-month, tenure-track faculty positions in Artificial Intelligence to begin in Fall 2020. Candidates with a strong research record in any areas of Artificial Intelligence including Natural Language Processing, Computer Vision, Machine Learning, and Automated Planning will be considered.

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 doctorate degree in Artificial Intelligence, Machine Learning, Computer Science, or a closely related field by the start of employment. Applicants should demonstrate a strong commitment and capacity to initiate new funded research as well as to expand, complement, and collaborate with existing research programs in the OSU College of Engineering and beyond. As part of the position, applicants have to regularly perform graduate and undergraduate teaching duties, including developing new courses related to their research...
expertise. Applicants are expected to mentor students and promote equitable outcomes among learners of diverse and underrepresented identity groups.

The university is located in Corvallis, at the heart of Oregon’s Willamette Valley and close to Portland’s Silicon Forest with numerous collaboration opportunities. The College of Engineering (CoE) boasts of strong graduate programs in Robotics and AI and a newly established Collaborative Robotics and Intelligent Systems Institute (CoRIS). Corvallis has been ranked #1 on a list of “Best Places for Work-Life Balance” and is within easy reach of the Cascade Mountains 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.

Apply online at http://jobs.oregonstate.edu/postings/79556 (Posting #: P03142UF) 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 efforts towards equity and inclusion; and names and contact information for at least three references.

To be assured full consideration, applications must be received by December 1, 2019.

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Oregon State University

Multiple Faculty Positions In Computer Science
College Of Engineering

As part of an expansive search, the School of Electrical Engineering and Computer Science at Oregon State University invites applications for several full-time, nine-month, tenure-track faculty positions to begin in Fall 2020. Candidates with a strong research record in the following areas of Computer Science will be considered: Software Engineering, Programming Languages, Data-intensive Systems, or Theory.

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 doctorate degree in Computer Science or closely related field by the start of employment. 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. OSU has a strong collaborative community and recognition will be given to collaborative research with researchers at OSU, and at other national or international institutions. As part of the position, applicants have to regularly perform graduate and undergraduate teaching duties, including developing new courses related to their research expertise. Applicants are expected to mentor students and promote equitable outcomes among learners of diverse and underrepresented identity groups.

The university is located in Corvallis, at the heart of Oregon’s Willamette Valley and close to Portland’s Silicon Forest with numerous collaboration opportunities. The school hosts an innovative distance education post-baccalaureate degree program in Computer Science which is highly rated. Corvallis has been ranked #1 on a list of “Best Places for Work-Life Balance” and is within easy reach of the Cascade Mountains 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.

Apply online at http://jobs.oregonstate.edu/postings/80401 (Posting #: P0314UF) with the following documents: A letter of interest; vita; a two-page statement of
Professional Opportunities

research interests, a one-page statement of teaching interests, a one-page statement on efforts towards equity and inclusion, and names and contact information for at least three references.

To be assured full consideration, applications must be received by Nov 15, 2019.

Portland State University
Assistant Professor

The Department of Computer Science at Portland State University invites applications for several Assistant Professor positions. Exceptional candidates will also be considered for appointment at the rank of Associate Professor. Candidates in all areas of Computer Science will be considered, with a preference for applicants who will enhance or complement our existing areas of research expertise. The Computer Science program welcomed its first students in Fall 2017 and has surpassed enrollment expectations. In order to meet programmatic growth, we seek exceptionally qualified candidates to join our program who are passionate about the undergraduate experience, both inside and outside of the classroom.

Applicants from all research areas will be considered, especially those with expertise in cybersecurity, game design, or artificial intelligence.

The successful candidates will have demonstrated excellence in their teaching and research and be able to speak to how they will contribute to a diverse science community at Rider, including forging interdepartmental collaborations.

The successful candidates will have a Ph.D. in Computer Science or a closely related field. ABDs will be considered as long as they successfully defend prior to Fall 2020. Post-doctoral and college-level teaching experience is preferred.

Rider University is composed of faculty, staff, and students from a wide range of cultural backgrounds who come together and create a vibrant, living and learning community. Candidates with a demonstrated commitment supportive of the multicultural needs of Rider University and the surrounding community are highly desired. Applicants should be experienced with, and committed to, working with such a diverse population.

Candidates should apply directly to our website at: http://rider.peopleadmin.com/postings/6102. Application materials must include: cover letter; curriculum vitae; statement of teaching philosophy (3 pages maximum); research statement, including how undergraduates will be incorporated (3 pages maximum); statement outlining a commitment to diversity, including evidence of experience working with and teaching diverse students; undergraduate and graduate transcripts; the names of three confidential references, which can speak to both your research and teaching experience.

Review of complete applications will begin on October 1, 2019, and continue until the position is filled.

Rider University is an Equal Opportunity/Affirmative Action employer dedicated to excellence through diversity and does not discriminate on the basis of age, race,
Professional Opportunities

color, religion, national origin, sex, sexual orientation, handicap/disability, Vietnam-era/disabled veteran status, gender identity or expression, or any other non-job related criteria.

San Diego State University

Two Tenure-Track Assistant Professor Positions

The Department of Computer Science at SDSU seeks to hire two tenure-track Assistant Professors starting Fall 2020. The candidates should have PhD degrees in Computer Science or closely related fields. One position is in computer systems and the other position is in software engineering (see https://cs.sdsu.edu/sdsu-computer-science-department-two-tenure-track-assistant-professor-positions/).

Questions about the position may be directed to COS-CS-Search@sdsu.edu. Top candidates in other areas will also be considered. We encourage candidates with a demonstrated commitment to research, teaching, and diversity to apply. This position may also be eligible for the SDSU Building on Inclusive Excellence (BIE) hiring program that creates additional faculty lines for candidates who meet two or more of the criteria listed in https://diversity.sdsu.edu/inclusion/BIECriteria. To be considered for one of these additional BIE hires, candidates should identify in their letter of application how they meet two or more of the criteria. SDSU is an equal opportunity/Title IX employer.

Santa Clara University

Assistant Professor

The Department of Mathematics and Computer Science at Santa Clara University invites applications for a tenure-track assistant professor position in computer science. Our highest preference is for candidates with research interests in an area related to data science. The successful candidate will demonstrate not only potential for excellent undergraduate teaching, but also promise in sustained research with opportunities to involve undergraduates, mentoring or recruiting underrepresented groups in computer science, and service to the department, College or University.

Positions available starting in September 2020. Ph.D. or equivalent in computer science or a closely-related field required by September 2020.

The closing date for applications is December 1, 2019 at 3 pm Pacific time. Undergraduate teaching only.

For more information, see www.scu.edu/hr/careers/faculty.cfm.

Santa Clara University

Tenure-Track Assistant Professors

The Department of Computer Science & Engineering at Santa Clara University invites applications for two tenure-track Assistant Professor positions starting in the 2020-2021 academic year. To complement expertise of current faculty, address areas of strong interest to students, and enhance collaboration opportunities with local industries, the department is particularly interested in candidates with specializations in software engineering, programming languages, HCI, machine learning, visualization (AR/VR), and database systems. However, Silicon Valley is an area of broad and ever-changing technical interests and needs, and strong candidates will be seriously considered regardless of area of specialization.

Santa Clara University (https://www.scu.edu) is a comprehensive Jesuit, Catholic university, located in the heart of Silicon Valley. Distinguished by the highest retention rate and has been ranked first among all master’s universities in the West by U.S. News and World Report. Santa Clara University is now elevated to a new category in national rankings, “Doctoral/Professional Universities.” Santa Clara University is California’s oldest operating institution of higher-education. The School of Engineering is committed to improving the human condition through engineering education, practice, and scholarship, promoting the University’s mission to ‘fashion a more humane, just and sustainable world.’

SCU maintains small class sizes and promotes close faculty/student interactions.
interaction. The University enrollment is approximately 5,500 undergraduate and 3,700 graduate students. The Department of Computer Science offers B.S., M.S. and Ph.D. degrees, with 22 full-time faculty, and a strong pool of approximately 25 part-time adjunct faculty who instruct about 400 undergraduate majors, and about 500 part-time and full-time graduate (M.S. and Ph.D.) majors. The School of Engineering maintains strong ties to local industry.

Applicants must hold a doctorate in computer science, computer engineering, or in a closely related field; have demonstrated a strong potential for high-quality research in computing, and have a strong commitment and ability to teach at both the undergraduate and graduate levels. The full-time teaching load is nominally seven quarter-level courses per academic year (each quarter is 10 weeks excluding the final exams week), but a one course release is given to faculty actively involved in research and course credit is also given for project, thesis, and laboratory supervision. Limited course buyout may be approved using external grant funds.

The proposed start date is September 1, 2020.

Applicants should submit detailed CVs, statements of research interests, statements of teaching interests, and names and contact information of three professional references. All materials should be submitted online at https://jobs.scu.edu/postings/8936.

Review of applications will begin upon receipt and complete application packets received by November 1, 2019 will receive full consideration. However, the search will remain open until the position is filled.

**EEO / AA Policy:**

Santa Clara University is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity and inclusion, and, in this spirit, particularly welcomes applications from women, persons of color, and members of historically underrepresented groups. All qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity or expression, age, status as a protected veteran, status as a qualified individual with a disability, or other protected category in accordance with applicable law. The University will provide reasonable accommodations to individuals with a disability.

Santa Clara University annually collects information about campus crimes and other reportable incidents in accordance with the federal Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. To view the Santa Clara University report, please go to the Campus Safety Services website at https://university-operations.scu.edu/campus-safety/crime-reporting. To request a paper copy please call Campus Safety at (408) 554-4441. The report includes the type of crime, venue, and number of occurrences.
associate professor, and visiting professor levels with teaching expertise in computer science or computer engineering. The successful applicants will teach primarily at the undergraduate level in support of the development of the undergraduate program; advise and mentor undergraduate students; participate in all aspects of the department’s activities; and serve the profession. Strong written and verbal communication skills are required. Applicants should consult the department’s website to review our academic and research programs (engineering.tamu.edu/cse).

Applicants must have, at the minimum, an earned bachelor level degree and substantial experience for professor of practice level titles. Applicants must have a doctoral degree in a closely related engineering or science discipline for the visiting professor levels. Candidates for other academic professional track titles must have a masters or doctoral degree in a closely related engineering or science discipline.

The Department of Computer Science and Engineering (CSE) at Texas A&M is currently one of 14 departments in the College of Engineering. Academic professional track (APT) positions provide long-term career paths with opportunities for advancement. With an average time in service of eight years for our APT faculty, CSE prides itself on offering an engaging, collegial and collaborative culture in the area of teaching.

curriculum development and service. We are committed to hiring outstanding teachers who can introduce new and innovative teaching pedagogies. The department provides its nearly 1,100 undergraduate students with the highest quality of education in computer science and computer engineering. This commitment to instruction produces versatile students with the strong education and technical training allowing them to be competitive in the job market or prepared for advanced studies in graduate school.

Applicants should submit a cover letter, curriculum vitae, teaching statement, and a list of four references (including postal addresses, phone numbers and email addresses). Applications will continue to be accepted until the positions are filled.
addresses) by applying for this specific position at www.tamengineeringcareers.org. Full consideration will be given to applications received by December 15, 2019. Applications received after that date may be considered until positions are filled. It is anticipated the appointment will begin spring 2020 or fall 2020.

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.

Department of Computer Science and Engineering

Department Contact: Kathy Waskom, k-waskom@tamu.edu

Texas A&M University

Multiple Academic Professional Track Faculty Positions - CSE @ TAMU

The Department of Computer Science and Engineering at Texas A&M University invites applications for academic professional track faculty positions at the lecturer, instructional professor, professor of practice, and visiting professor levels with teaching expertise in computer science or computer engineering. The successful applicants will teach primarily at the undergraduate level in support of the development of the undergraduate program; advise and mentor undergraduate students; participate in all aspects of the department's activities; and serve the profession. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs (engineering.tamu.edu/cse).

Applicants must have, at the minimum, an earned bachelor level degree and substantial experience for professor of practice level titles. Applicants must have a doctoral degree in a closely related engineering or science discipline for the visiting professor levels. Candidates for other academic professional track titles must have a masters or doctoral degree in a closely related engineering or science discipline.

The Department of Computer Science and Engineering (CSE) at Texas A&M is currently one of 14 departments in the College of Engineering. Academic professional track (APT) positions provide long-term career paths with opportunities for advancement. With an average time in service of eight years for our APT faculty, CSE prides itself on offering an engaging, collegial and collaborative culture in the area of teaching, curriculum development and service. We are committed to hiring outstanding teachers who can introduce new and innovative teaching pedagogies. The department provides its nearly 1,100 undergraduate students with the highest quality of education in computer science and computer engineering. This commitment to instruction produces versatile students with the strong education and technical training allowing them to be competitive in the job market or prepared for advanced studies in graduate school.

Applicants should submit a cover letter, curriculum vitae, teaching statement, and a list of four references (including postal addresses, phone numbers and email addresses) by applying for this specific position at www.tamengineeringcareers.org.

Full consideration will be given to applications received by December 15, 2019. Applications received after that date may be considered until positions are filled. It is anticipated the appointment will begin spring 2020 or fall 2020.

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.
Tufts University

Multiple Faculty Positions Open
Department of Computer Science

The Department of Computer Science at Tufts University invites applications for the following faculty positions:

Assistant or Associate Professor (tenure-track) to begin in September 2020. We are especially interested in candidates with research in Security, Human-Data Interaction, or Theory. Exceptional candidates in other areas will be considered as well.

We are looking for engaged and engaging researchers and teachers with a compelling vision who can build and maintain a high-quality research program at Tufts. We are interested in candidates whose research will connect with some of our current faculty while also extending into new areas.

QUALIFICATIONS: Applicants must hold a doctorate by the beginning of the appointment, must have an active research program, must show promise of continued outstanding research activity, and must exhibit a strong commitment to excellence in teaching. Expertise in Security, Human-Data Interaction, or Theoretical Computer Science with a connection to other departmental priority areas is preferred.

TO APPLY: Please submit your application online through Interfolio at https://apply.interfolio.com/66978. Review of applications will begin December 15, 2019.

Assistant Teaching Professor (multiple positions) to begin in Spring or Fall 2020. Candidates may have expertise in any area of computer science or a closely related field including but not limited to Algorithms, Complexity, AI, Analytics, Machine Learning, Databases, Distributed Systems, Computational Biology, Hardware-Software Interfaces, Human-Computer Interaction, Robotics, Mobile Development, Natural Language Processing, Power Management, Programming Languages Security, Software Development, Systems, Visualization, and Web Infrastructure and Design.

These are full-time, non-tenure-track positions. Initial appointment terms will be for two years with the possibility of renewal contingent on annual performance review results.

QUALIFICATIONS: The ideal Assistant Teaching Professor candidate will possess prior teaching experience, especially with undergraduate students, and have an engaging teaching style. The candidate must have a strong commitment to teaching and mentoring. A doctoral degree is preferred but not required.

TO APPLY: Please submit your application online through Interfolio at https://apply.interfolio.com/66990. Review of applications will begin October 15, 2019.

For more information, please visit go.tufts.edu/CSpositions.

University of Buffalo

Assistant, Associate, or Full Professor (State Faculty)

The Department of Computer Science and Engineering (CSE) at University at Buffalo (UB) invites candidates to apply for the positions of Assistant Professor, Associate Professor or Full Professor. We are particularly looking for candidates who can operate effectively in a team environment and in a diverse community of students and faculty and share our vision of helping all constituents reach their full potential.

The successful candidate will be expected to teach courses at the graduate and undergraduate levels, mentor graduate students, advise students at all levels and maintain an active research program. The successful candidate for an Associate Professor or Full Professor position should have a record of scholarly accomplishments, teaching experience and a sustained externally funded research program. Desirable areas of research expertise are any that complement the existing research strengths in the department but are not limited to, one or more of the following: cyber security; robotics; artificial intelligence; software engineering; and programming languages.

TO APPLY: Please submit your application online through Interfolio at https://apply.interfolio.com/66990. Review of applications will begin October 15, 2019.

For more information, please visit go.tufts.edu/CSpositions.

Tufts University is an Equal Opportunity/ Affirmative Action Employer. We are committed to increasing the diversity of our faculty and staff and fostering their success when hired. Members of underrepresented groups are welcome and strongly encouraged to apply. Applicants can learn more about requesting reasonable accommodations at http://oeo.tufts.edu.
Professional Opportunities

intelligence; machine learning; big data; and quantum computing.

The Department of Computer Science and Engineering is housed in a new $75 M building. As part of the School of Engineering and Applied Sciences, the department offers both BA and BS degrees in Computer Science, a BS in Computer Engineering, a combined 5-year BS/MS program, a minor in Computer Science, and two joint programs (BA/MBA and Computational Physics), as well as MS and PhD programs.

Our faculty members are actively involved in cutting-edge research and successful interdisciplinary programs and centers devoted to biometrics; bioinformatics; biomedical computing; computational and data science and engineering; document analysis and recognition; high performance computing; information assurance and cyber security; embedded, networked and distributed systems; and sustainable transportation. Our faculty have excellent publication records over the years. For the past two years in a row (2017 and 2018), the department is ranked among the top 30 on csrankings.org. In 2017-2018, our research expenditure exceeded $6 million and the total amount of new awards in 2017 exceeded $12 million.

The University at Buffalo (UB), a member of the prestigious American Association of Universities (AAU), is the largest and most comprehensive university in The State University of New York (SUNY) system, with about 20,000 undergraduates and 10,000 graduate students and 1600 full-time faculty. The School of Engineering and Applied Sciences has 6,000 students enrolled across 9 academic departments.

Candidates must hold a doctorate in computer science, computer engineering or a closely related field. PhD must be conferred prior to appointment.

Please apply online at http://www.ubjobs.buffalo.edu/postings/21044

University at Buffalo is an affirmative action equal opportunity employer and, in keeping with our commitment, welcomes all to apply including veterans and individuals with disabilities.

University of Buffalo
Assistant Professor of Teaching

The Department of Computer Science and Engineering (CSE) at University at Buffalo (UB) invites candidates to apply for the position of Assistant Professor of Teaching (Lecturer). We are particularly looking for candidates who can operate effectively in a team environment and in a diverse community of students and faculty and share our vision of helping all constituents reach their full potential.

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

CSE offers both BA and BS degrees in computer science, a BS degree in computer engineering, a combined 5-year BS-MS program, a minor in computer science and two joint programs (BA-MBA and computational physics) as well as MS and PhD programs.

The University at Buffalo (UB), a member of the prestigious American Association of Universities, is the largest and most comprehensive university in The State University of New York (SUNY) system, with about 20,000 undergraduates and 10,000 graduate students and 1600 fulltime faculty. The School of Engineering and Applied Sciences has 6,000 students enrolled across 9 academic departments.

PhD in computer science, computer engineering or closely related field. PhD must be conferred prior to appointment.

Please apply online at http://www.ubjobs.buffalo.edu/postings/20702

University at Buffalo is an affirmative action equal opportunity employer and, in keeping with our commitment, welcomes all to apply including veterans and individuals with disabilities.

University of Buffalo
Professor of Empire Innovation

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

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

The successful candidate will be expected to teach courses at the graduate and undergraduate levels, mentor graduate students, advise students at all levels and maintain an active research program. We are particularly looking for candidates who can operate effectively in a diverse community of student and faculty and share our vision of helping all constituents reach their full potential.

The Department of Computer Science and Engineering is housed in a new $75 M building. As part of the School of Engineering and Applied Sciences, the department offers both BA and BS degrees in Computer Science, a BS in Computer Engineering, a combined 5-year BS/MS program, a minor in Computer Science, and two joint programs (BA/MBA and Computational Physics), as well as MS and PhD programs.

The department has over 40 tenure-track faculty, 9 teaching faculty and approximately 1,200 undergraduates majors, 550 masters' students and 160 PhD students. About twenty junior faculty have been hired since 2010, and we are continuing to expand. Two members of our faculty currently hold key university leadership positions, and seven members of our faculty are IEEE and/or ACM Fellows. The department is well known for offering excellent collaborative and nurturing environment for faculty. Recently, a cohort of five junior faculty received the CAREER awards in 2019, setting a national record.

The University at Buffalo (UB), a member of the prestigious Association of American Universities (AAU), is the largest and most comprehensive university in the State University of New York (SUNY) system, with about 20,000 undergraduates and 10,000 graduate students and 1,600 fulltime faculty. The School of Engineering and Applied

**Assistant Professor: Society and Ethics in Data Science**

The [http://communication.ucsd.edu](http://communication.ucsd.edu) within the Division of Social Sciences at the University of California, San Diego and the [https://datascience.ucsd.edu](https://datascience.ucsd.edu) are seeking to make a joint appointment at the Assistant Professor level, to begin Fall 2020 in the following area: Society and Ethics in Data Science. This is a shared appointment between the Department of Communications and Halıcıoğlu Data Science Institute (HDSI) with teaching and service responsibilities evenly distributed between the two units. The Department of Communication will be the candidate’s home department and will oversee the process of appointment and future review. Moreover, this search is part of an ongoing cluster hire, sponsored by the [http://ipe.ucsd.edu](http://ipe.ucsd.edu) and focused on the social implications and ethics of science, technology and medicine. It is expected that the successful candidate will participate in relevant activities of the IPE. The candidate will also engage in social science research and teaching on the power, peril and promise of data science/artificial intelligence with a focus specifically on how, in what ways, to what ends and with what consequences the infrastructures and methods of data analytics are reshaping social life, political institutions and processes and ethical regimes.

Completion of PhD in a social science field or a PhD in computer science by date of hire or completed now is required. Candidate is also required to have significant training in social science identified by degrees and/or multiple years of work experience.

Data Science has emerged as an area central to advances in our understanding of nature, improving the quality life and a healthy society. Data collection, stewardship and analyses are already integrated into the infrastructure for commerce, healthcare, governance and education. The ubiquitous practical uses of digital data have raised awareness of the need to further develop the underlying scientific, technological, social and ethical basis for understanding and exploiting data.

HDSI is a new strategic academic institute tasked with hosting and coordination of Data Science research and education activities at the University of California, San Diego. Among HDSI academic programs are the Data Science major and minor currently with nearly 600 undergraduate students. The Department of Communication brings multiple disciplinary traditions and methodologies to bear in the study of communication as an institutional, technological, cultural, architectural, and cognitive phenomenon, inextricably anchored in and shaped by questions of democracy, diversity, social justice, and social change.

The University of California San Diego is committed to academic excellence and diversity within the faculty, staff, and student body. We seek candidates who will maintain the highest standards of scholarship and professional activity and make a strong and meaningful contribution to the development of a campus climate that supports equality and diversity. Salary is commensurate with qualifications and based on published University of California pay scales. To ensure full consideration, all application materials must be submitted electronically by October 15, 2019, at the following link: [https://apptrkr.com/1527709](https://apptrkr.com/1527709).

UC San Diego is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age or protected veteran status.

**Job Location**
La Jolla, CA

**Learn More**
More information about this recruitment: [http://datascience.ucsd.edu](http://datascience.ucsd.edu)

**Document requirements**
- Curriculum Vitae - Your most recently updated CV
- Cover Letter - A two to three page cover letter
- Statement of Research - Statement detailing your research interests.
- Statement of Teaching
- Statement of Contributions to Diversity - Applicants should summarize their past or potential contributions to diversity. See our [http://facultydiversity.ucsd.edu/recruitment/contributions-to-diversity.html](http://facultydiversity.ucsd.edu/recruitment/contributions-to-diversity.html) site for more information.
- Writing sample(s) - Writing samples up to 50 pages total.

**Reference requirements**
- 3 required (contact information only)

To apply, please visit: [https://apptrkr.com/1527709](https://apptrkr.com/1527709)
University of Chicago

Deputy to Editor-In-Chief (Editing Analyst)
CACM – Uchicago

The job performs routine professional activities to support large scale editorial and/or publishing projects. With guidance from others, collaborates with authors to coordinate manuscript elements supplied by many departments, using existing procedures to solve problems that may arise.

Job Description: Working with the team, ACM, and computing community, and under direct supervision of the Editor in Chief: Administration and Support for Editorial process - Primary interface to authors and editors (worldwide) and the production team (NYC), manuscript tracking and processing. Tracks progress and identifies obstacles. Design and organize CACM Editorial board communication infrastructure, including mailing lists, shared documents, folders, reports. Involvement in Editorial Staffing and Organization - Design and implement metrics for CACM EB responsiveness; Monitor metrics, analysis, and if appropriate propose improvements; Tracks progress and identifies obstacles. Maintain current CACM EB, working with co-chairs to onboard new members and gauge overall EB energy levels; Involvement in Strategic Partnerships, including International Partnerships and Customization - Perform strategic analyses of current and potential future activities to broaden CACM reach. Scope includes comparative benchmark studies, including information collection and analysis. Scope also includes plans, budgets, and staffing requirements; Scope may also include arranging meetings, developing agendas, and writing and presenting reports to inform CACM and ACM action;

Unit-preferred competencies:
1. Organized self-starter, able to work strategically and independently;
2. Effective bridge-builder, able to work across communities;
3. Literacy and passion for computing, computer science, and technology;
4. Interest in computing research and industry, and technology policy;

Preferred Qualifications:

Education:
1. Bachelor’s degree;

Experience:
1. Experience in project management and working with cross-functional teams
2. Experience in social media management and promotion

Technical Knowledge or Skills
1. Online editorial process management tools, such as Manuscript Central;
2. Online collaboration tools

Required Documents
1. Resume
2. Cover letter
3. List of References

NOTE: When applying, all required documents MUST be uploaded under the Resume/CV section of the application.

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.

Apply at https://uchicago.wd5.myworkdayjobs.com/External/job/Hyde-Park-Campus/Editing-Analyst_JR0606
University of Colorado Denver

Assistant Professor, CTT - Computer Science and Engineering

The Department of Computer Science and Engineering at the University of Colorado Denver invites applications for a non-tenure track position of Assistant Professor, Clinical Teaching Track. This position will be responsible for developing courses for the new Bachelor of Arts in Computer Science to grow the curriculum.

For full details and to apply, visit https://cu.taleo.net/careersection/2/jobdetail.ftl?job=16295&amp;lang=en

University of Delaware

Assistant/Associate Professor Positions in Disaster Science

The University of Delaware (UD) (http://www.udel.edu/) invites applications from talented scholars pursuing interesting questions related to disasters, hazards, risk, and crisis. We are looking to fill multiple tenure-track/tenured positions in Disaster Science at Assistant or Associate Professor. Faculty will have a tenure-track/tenured home in either computer information science or civil and environmental engineering at the University of Delaware and join, as core faculty, the world-renowned Disaster Research Center (DRC).

Please visit http://www.udel.edu/006165 for a full-length description of the position and to apply.

Review of applications will begin on September 10, 2019, and will continue until the position is filled.

The University of Delaware (UD) (http://www.udel.edu/) invites applications from talented scholars pursuing interesting questions related to disasters, hazards, risk, and crisis. We are looking to fill multiple tenure-track/tenured positions in Disaster Science at Assistant or Associate Professor. Faculty will have a tenure-track/tenured home in either computer information science or civil and environmental engineering at the University of Delaware and join, as core faculty, the world-renowned Disaster Research Center (DRC).

Please visit http://www.udel.edu/006165 for a full-length description of the position and to apply.

Review of applications will begin on September 10, 2019, and will continue until the position is filled.

University of Illinois Urbana-Champaign

Illinois Future Faculty Fellows

The Department of Computer Science (CS) at the University of Illinois at Urbana-Champaign invites applications for the “Future Faculty” program. The Future Faculty Program is a selective program offering two-year postdoctoral positions whose goal is to mentor and prepare outstanding candidates for an academic career in research and teaching. Candidates will be paired with a faculty mentor who will serve as their research supervisor. In addition, interested candidates will have the opportunity to teach up to one course per semester with strong mentorship and logistic support that guides candidates in good pedagogical practices. Individuals in the program will be mentored through the faculty job search process and will have the opportunity to be considered for a faculty position at Illinois. Candidates in all areas of computer science are encouraged to apply. Applicants for this position are expected to have a PhD or equivalent degree in computer science or a closely related field.

The University of Illinois has one of the strongest CS departments in the country, with approximately 1800 undergraduate majors and over 700 graduate students across seventeen different degree programs. In addition to our flagship undergraduate program in the College of Engineering, which includes a diverse class of over 30% women in our freshman class, our innovative CS+X programs...
Professional Opportunities

incorporate a strong grounding in CS with technical or professional training in the arts and sciences across a dozen different disciplines. We seek applicants that will contribute to the diverse and vibrant atmosphere in the department. Successful applicants will join the department’s thriving community of creative, passionate, and innovative teaching and research faculty who contribute to high-quality instruction and research. Our graduate program is ranked one of the top five in the country by US News & World Report. We are also one of the leading teaching units on campus, offering computing education to students in every discipline.

The start date for these positions is flexible. In order to ensure full consideration, for a Fall 2019 start date, applications should be received by July 15, 2019, and for a Spring 2020 start date, applications should be received by October 15, 2019. Applicants may be interviewed before the closing dates; however, no hiring decision will be made until after that date. Salary will be commensurate with qualifications. Applications should be submitted by visiting http://jobs.illinois.edu and uploading a cover letter, curriculum vitae, teaching statement, research statement, and names and contact information for three references. Applicants should indicate what their ultimate career goals are within the content of their cover letter, as well as the Illinois faculty with whom they are interested in working. Applicants may also submit supporting material relevant to evaluating their teaching abilities. For inquiry, please call 217-244-7949 or email Amy Simons at HR@cs.illinois.edu.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).

University of Maryland

Open Rank (Assistant/Associate/Professor)

The College of Information Studies (Maryland’s iSchool) and the Department of Criminology and Criminal Justice at the University of Maryland, College Park invite applications for an open rank tenure-track or tenured position with a focus on building systems for and conducting data-driven analyses in crime, law and justice. Examples of possible research approaches include: data mining; information visualization; automating or advancing data pre-processing; signal processing, computer vision, and natural language processing; applied machine learning; algorithmic transparency, debiasing algorithms and data, and algorithmic accountability; and computational social science. We are interested in candidates who apply these topics in the context of criminology, justice, and criminal law (e.g., predictive policing, pretrial risk assessment, database building through open sources, linking criminal records, recidivism prediction, management of bodycam video, face recognition in

The University of Iowa

Tippie College of Business
Faculty Position in Business Analytics

The Position

The Department of Business Analytics in the Tippie College of Business at the University of Iowa invites applications for a tenure-track faculty position with a fall 2020 starting date. We are particularly interested in innovative scholars at the entering or advanced Assistant or beginning Associate level. The successful candidate will contribute to vibrant and expanding programs at the graduate and undergraduate levels. We are excited to consider a broad range of fields within analytics. We welcome applicants with a PhD degree in Applied Math, Business Analytics, Computer Science, Industrial Engineering, Informatics/Information Sciences, Logistics, Management Science, Operations Management/Supply Chain, Statistics or a related field.

For more details about the position, the department, the University, Iowa City, and how to apply, please see https://www.biz.uiowa.edu/search/departments/business-analytics/
surveillance images, management of DNA evidence). Candidates with data-driven approaches to related social science topics are encouraged to apply.

This will be a joint position with the Department of Criminology and Criminal Justice and the iSchool. Tenure home will be negotiated at the time of hire. A record of excellence in scholarship and a strong commitment to research and teaching at the undergraduate and graduate levels are required. Candidates should have a Ph.D. in a related field.

To Apply:

Applicants should apply electronically at [https://ejobs.umd.edu/postings/71777](https://ejobs.umd.edu/postings/71777). Applications should include the following documents: (1) a cover letter, (2) a curriculum vita, (3) a research statement, (4) a teaching statement and (5) a list of names and e-mail addresses for three references.

For best consideration, applications should be submitted by Tuesday, October 1, 2019.

Questions can be addressed to Laura Dugan and Katie Shilton, Chairs of the Criminal Justice/ iSchool Search Committee at ldugan@umd.edu and kshilton@umd.edu.

University of Massachusetts Amherst -
Assistant Dean of Research Business Development (Director of Research Business Development)

The College of Information and Computer Sciences (CICS) at the University of Massachusetts Amherst invites applications for an Assistant Dean of Research Business Development (Director of Research Business Development).


The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities and encourages applications from these and other protected group members.

University of Miami

Faculty

The Department of Computer Science at the University of Miami invites applications for various level Professor positions. Candidates must possess a PhD in Computer Science or a closely related discipline. The positions require research and teaching expertise in Artificial Intelligence/Data Science, including areas such as Data Extraction, Data Visualization, Machine Learning, Cognitive Intelligence, and Intelligent Actuators. Faculty are expected to develop and maintain an internationally recognized research program, and teach at both the undergraduate and graduate levels.

 Applicants should submit five PDF documents:
1. A cover letter, including the names and contact information for at least of three references.
2. Curriculum vitae.
3. Research plan.
4. Teaching philosophy, with results of all teaching evaluations from the last two years.
5. Up to three representative papers (concatenated into a single PDF).

Submissions must be made online at [http://search.cs.miami.edu](http://search.cs.miami.edu)

Review of applications will begin on the 1st September 2019, and will continue until the positions are filled.

Enquiries may be directed to search@cs.miami.edu

University of Michigan

Faculty Position in Complex Systems

The Center for the Study of Complex Systems (CSCS) at the University of Michigan seeks applicants for a tenure-track faculty position in complex systems science. This is a University-year appointment at the Assistant Professor level although more senior applicants will also be considered. The expected start date is 1 September 2020.
Required Qualifications: We seek applicants with a research agenda focused on the development and/or application of complex systems models and/or methods. This may involve theoretical or applied research in areas of complex systems including (but not limited to) mathematical and computational work in network science, emergence and robustness, related topics in computer science, or scientific applications where complex systems theory lies at the core of the approach such as quantitative modeling of social systems, biological structure and development, evolution, artificial life and cognition. We are particularly interested in candidates with a record of working across disciplines.

How to Apply: All applications must be uploaded here: http://webapps.lsa.umich.edu/Apply/CSCS

This faculty position will be a joint appointment between CSCS and another academic department or school at the University of Michigan. Candidates should identify one or more partner units at the University of Michigan suitable for such a joint appointment. Applicants must submit a CV, a statement of current and future research plans, a statement of teaching philosophy and experience, and evidence of teaching excellence, if any. At least three letters of recommendation are required and must be uploaded onto the same website. Review of applications will begin on 1 October 2019 and will continue until the position is filled.

The University of Michigan is supportive of the needs of dual-career couples and is an equal opportunity/affirmative action employer. Women and minority candidates are encouraged to apply.

University of Notre Dame
Quantum Computing Faculty Position

The University of Notre Dame is expanding the scope of its quantum science and technology community to include quantum computing, and are looking for new faculty with appropriate expertise. These new faculty members and their students are expected to pioneer the development of novel quantum computing applications in chemistry, physics, and engineering, to create tools for increasing the efficiency of quantum computers, and to develop quantum algorithms and techniques to address new application areas such as data analytics. In addition, with the College of Science and the University’s Center for Research Computing, the College of Engineering has established a partnership with the IBM Q Network, and is seeking new faculty who wish to collaborate in this quantum computing effort.

The Department of Computer Science and Engineering invites applications for tenure-track faculty positions at all ranks with expertise in quantum computing paradigms and applications. We seek to attract, develop, and retain excellent faculty members with strong records and future promise. The Department is interested in candidates who will contribute to the diversity and excellence of the University’s academic community through their research, teaching, and service, and especially take a leadership role in the University’s initiatives in quantum computing.

The Department offers the Ph.D. degree and undergraduate Computer Science and Computer Engineering degrees. Faculty are expected to excel in classroom teaching and to lead highly-visible research projects that attract substantial external funding. More information about the department can be found at: http://cse.nd.edu/

Applicants must submit a CV, a teaching statement, a research statement, and contact information for three professional references at https://apply.interfolio.com/65332.

The University is an Equal Opportunity and Affirmative Action employer; we strongly encourage applications from women, minorities, veterans, individuals with a disability and those candidates attracted to a university with a Catholic identity.

University of Notre Dame
Faculty Position in Computational Social Science

The Department of Computer Science and Engineering and the College of Arts and Letters at the University of Notre Dame invites applications for an open-rank faculty position in Computational Social Science. Candidates should possess an earned Ph.D. in computer science or in a social science field that makes extensive use of computational methods in research. Home departments include
Professional Opportunities

Computer Science and Engineering, Sociology, Political Science, or other units in College of Arts and Letters with the opportunity for cross appointments with other colleges and departments. Applications at the ranks of Assistant Professor, Associate Professor, and Professor will be considered; exceptional candidates may be considered for appointment to a chaired professorship.

Notre Dame is supporting interdisciplinary efforts that integrate computer and data science with a variety of scholarly disciplines, including the social sciences, humanities, and creative arts. University-wide undergraduate minors in Computers and Digital Technologies and Data Science provide integrative opportunities across disciplines. This hire is intended to grow and, where appropriate, provide leadership and strategic direction to interdisciplinary research as well as foster growth in undergraduate opportunities.

Applicants must submit a cover letter, CV, research statement, teaching statement, and contact information for three professional references to http://apply.interfolio.com/65475. At later stages of the process, we may request a writing sample. Review of applications will begin on October 15th, 2019 and remain open until the position is filled. Questions may be directed to Professor Tim Weninger (tweninger@nd.edu).

The University is an Equal Opportunity and Affirmative Action employer; we strongly encourage applications from women, minorities, veterans, individuals with a disability and those candidates attracted to a university with a Catholic identity.

University of Southern California

**Viterbi School of Engineering – Department of Computer Science**
**Teaching Faculty Position**
**Los Angeles, CA**

The Department of Computer Science (http://cs.usc.edu) at the USC Viterbi School of Engineering (https://viterbischool.usc.edu/) seeks a candidate for a teaching position (Lecturer) to teach undergraduate and graduate courses. This is a full time, benefits eligible faculty position on the non-tenure track. The USC Viterbi School is committed to increasing the diversity of its faculty and welcomes applications from women, persons from underrepresented minority groups, veterans, and individuals with disabilities. In addition to its commitment to faculty diversity, the USC Viterbi School of Engineering is committed to enabling the success of dual career families and fosters a family-friendly environment.

Competitive candidates will have the training and experience necessary to teach effectively in a highly-ranked Computer Science department that advances undergraduate students through an accredited BS degree program and graduate students enrolled in MS and PhD programs. While we are interested in candidates with backgrounds in all areas of Computer Science, we are particularly interested in candidates with expertise in Algorithms, Artificial Intelligence, Machine Learning, Databases, Computer Games, Programming Languages, Networks/Systems, Software Engineering, Visualization, User Interfaces, and Data Science. Relevant industry experience is valued for candidates interested in teaching games-related courses.

This is primarily a teaching position: all candidates are expected to have a strong commitment to teaching. Lecturers spend the majority of time on teaching and teaching-related duties, with reduced obligation for research and University service. Qualified candidates should have a doctoral degree in Computer Science (or equivalent) by the date of appointment. Salary and benefits are competitive. We are interested in exceptional candidates at all levels. While we seek applications at the level of Lecturer, in exceptional cases, applicants with greater teaching experience may also be considered for a commensurate position (e.g., Senior Lecturer).

Applicants should submit their applications at USC Careers: https://usccareers.usc.edu/job/los-angeles/open-rank-professor-of-computer-science-practice/1209/12567313

Applications must include a cover letter, a detailed curriculum vitae, a teaching statement, names of at least three professional references, at least two of whom must be familiar with, and able to comment on, the applicant’s teaching experience and a succinct statement on fostering an environment of diversity and inclusion. Applicants may also include a research statement. Applications should be submitted by December 2, 2019. Applications received after this deadline may not be considered.
The USC Viterbi School of Engineering is among the top tier engineering schools in the world. It counts 188 full-time, tenure-track faculty members, and it is home to the Information Sciences Institute, two National Science Foundation Engineering Research Centers, a Department of Energy EFRC (Energy Frontiers Research Center), and the Department of Homeland Security’s first University Center of Excellence, CREATE. The school is affiliated with the Alfred E. Mann Institute for Biomedical Engineering, the Institute for Creative Technologies and the USC Stevens Center for Innovation. Research expenditures typically exceed $200 million annually. With 39 tenure-track, 31 research faculty, and 19 teaching faculty, the USC Department of Computer Science is one of the nation’s leading centers of research and education in the field.

USC is 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, protected veteran status, disability, or any other characteristic protected by law or USC policy. USC will consider for employment all qualified applicants with criminal histories in a manner consistent with the requirements of the Los Angeles Fair Chance Initiative for Hiring ordinance.

University of Southern California

Viterbi School of Engineering
Department of Computer Science
Multiple Tenure-Track Faculty Positions
Los Angeles, CA

The Department of Computer Science (http://cs.usc.edu) at the USC Viterbi School of Engineering (https://viterbischool.usc.edu/) is in a period of significant and sustained faculty growth. We have multiple openings for tenure-track positions in all areas and at all levels of seniority. The USC Viterbi School is committed to increasing the diversity of its faculty and welcomes applications from women, underrepresented groups, veterans, and individuals with disabilities. We are interested in exceptional candidates at all levels.

We expect all candidates to have a strong commitment to research, doctoral student mentoring, and teaching at the undergraduate and graduate levels. All applicants must have earned a doctorate in Computer Science or a closely related field by the date of appointment.

Applicants should submit their applications online at USC Careers: https://usccareers.usc.edu/job/los-angeles/open-rank-professor-of-computer-science/1209/12581644

Applications must include a cover letter indicating the applicant’s area of specialization, a detailed curriculum vitae, a statement on current and future research directions, a teaching statement, and names of at least three professional references. Applicants are encouraged to include a succinct statement on fostering an environment of diversity and inclusion. Applications should be submitted by December 2, 2019. Applications received after this deadline may not be considered.

The USC Viterbi School of Engineering is among the top tier engineering schools in the world. It counts 188 full-time, tenure-track faculty members, and it is home to the Information Sciences Institute, two National Science Foundation Engineering Research Centers, a Department of Energy EFRC (Energy Frontiers Research Center), and the Department of Homeland Security’s first University Center of Excellence, CREATE. The school is affiliated with the Alfred E. Mann Institute for Biomedical Engineering, the Institute for Creative Technologies and the USC Stevens Center for Innovation. Research expenditures typically exceed $200 million annually. With 39 tenure-track, 31 research faculty, and 19 teaching faculty, the USC Department of Computer Science is one of the nation’s leading centers of research and education in the field.

USC is 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, protected veteran status, disability, or any other characteristic protected by law or USC policy. USC will consider for employment all qualified applicants with criminal histories in a manner consistent with
Professional Opportunities

The University of Texas at San Antonio

UTSA Open Cloud Institute Executive Director (Candidate may be extended faculty appointment based on experience)

Successful candidates will have an earned Masters degree (M.S.), publications, and demonstrated research competencies and capabilities commensurate with appointment levels in applicable departments. Candidates should have 10 years of extensive leadership and/or senior managerial experience and expertise in areas such as Cloud/Edge/Fog Computing, Big Data Analytics, Cloud Security, HPC, both Public and Private Cloud Architecture, Federated Cloud, and other emerging technologies such as serverless computing and cloud functions and containers and container management, such as Kubernetes, Software-Defined Networking, and Network Functions Virtualization. The prospective candidate must be eligible for national security clearances.

Details/To apply: http://opencloud.utsa.edu/job-opportunities/

University of Washington

Assistant Professor of Human Centered Design & Engineering

At UW, we’re hiring an Assistant Professor in Human Centered Design & Engineering (HCDE) this coming year.

We have a particular interest in seeing applications from candidates focusing on:

- Human-centered data science
- Race, class, gender, and their intersections in design or engineering.
- Engineering human-centered systems (e.g., fabrication, robotics, open-source hardware, or similar fields), and
- Information visualization and social consequences.
- but will consider any applicant whose research is consistent with the department’s mission.

Details at https://www.hcde.washington.edu/employment, apply at http://apply.interfolio.com/64731

Victoria University of Wellington

Faculty of Engineering-Kelburn Campus

- Lecturer/Senior Lecturer in Computational Media
- Fixed-term (two years) full-time position
- Computational Media Innovation Centre (CMIC)

The Computational Media and Innovation Centre (CMIC) is a centre within the Faculty of Engineering, which aims to develop a globally competitive research and entrepreneurship programme that facilitates the transfer of computational research outcomes into media technologies for potential commercialisation and start-up businesses.

CMIC is seeking to make an appointment at the Lecturer or Senior Lecturer level (equivalent an Assistant or Associate Professor in the US based system) in the area of Computational Media focusing on Virtual and Augmented Reality, Computer Graphics, and Human Digital Contents Interactions. The successful candidate will be expected to contribute to supervise student thesis and research projects in Computational Media Innovation Centre (CMIC). They will also help develop the teaching programme for Computational Media and Entrepreneurship, and collaborate with existing researchers across the Faculty of Engineering, Faculty of Architecture and Media Design, ICT graduate school, and Miramar Creative Centre.

All areas of Computational Media and related areas are of interest, but applications are particularly welcome from candidates with expertise in the areas of Virtual and Augmented Reality, Immersive and Interactive Technologies, and Real-time Computer Graphics and Interactions.

The successful candidate is expected to have a PhD in Computer Science or a related area with a good track record of research publications. The preferred candidate will also have a record of attracting external funding. We welcome
applications from candidates who have novel approaches to course development and delivery and are able to strengthen relationships with NZ digital technology companies and CMIC's international partners in the related areas.

This is a full-time, two-year fixed-term position.

For further information, please contact Taehyun Rhee, Director of CMIC at: taehyun.rhee@vuw.ac.nz

Applications close Friday, 30 August 2019.

Victoria University of Wellington is an EEO employer and actively seeks to meet its obligations under the Treaty of Waitangi.

For more information and to apply online visit http://www.victoria.ac.nz/about/careers/current-vacancies

Reference 2968.

Virginia Tech

Vice President and Executive Director, Innovation Campus at National Landing

Virginia Tech seeks an innovative, entrepreneurial, and transformational leader for its inaugural Vice President and Executive Director of the Virginia Tech Innovation Campus at National Landing. The successful candidate shall work closely with President Sands to conceive, establish, and lead Virginia Tech’s strategy to build an internationally recognized, economically self-sufficient campus in the Washington, D.C. region that serves as the
teeminent magnet for high-tech talent, research, and innovation.

The Search Committee will begin reviewing candidates immediately and will continue until the position is filled. Priority consideration will be given to materials received by September 15, 2019. Applications should include 1) a detailed resume and 2) a letter of interest that addresses the responsibilities and requirements described above, as well as the applicant’s motivation to apply.

To ensure full consideration, inquiries, nominations, and applications (PDF preferred) should be submitted electronically, in confidence, to:

Paul Chou, Senior Client Partner & Co-Managing Director, Global Education Practice
Melissa Hurst, Principal
Korn Ferry
vt-vpedic@kornferry.com

Western University

Tenure-Track Assistant, Associate, or Full Professor of Computer Science

West Chester University’s Department of Computer Science invites applicants for open rank, tenure-track faculty to begin Spring 2020 and Fall 2020. This position teaches undergraduate and graduate level courses. The teaching load is four classes per semester. Applicants must have a Ph.D. in computer science or a related field at the time of appointment. The Search Committee will accept confidential applications and nominations until the position is filled. Screening of candidates will begin immediately. For best consideration, applications and nominations should be provided before August 26, 2019. Candidates should submit an application letter indicating your interests and suitability, curriculum vitae, a statement of research interests, a statement of teaching philosophy, unofficial academic transcripts (official graduate transcripts would be required later for finalists) and three letters of recommendation when applying.

Confidential inquiries, nominations, and application materials should be directed to:

Ashley Hice, Senior Executive Search Consultant ashleyhice@greenwoodsearch.com.

Yahoo Research

Research Scientist

Yahoo! Research is looking for a top research scientist in Data Mining, Applied Machine Learning, NLP, Visualization, and related areas. For further details, see https://bit.ly/2XCoQsq.

To apply, please complete https://bit.ly/315x7nV