

# COMPUTING RESEARCH NEWS



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

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## CRN At-A-Glance

### Nominations Open:

#### **CRA Distinguished Service Award**

Deadline December 7, 2018

#### **CRA A. Nico Habermann Award**

Deadline December 7, 2018

#### **CRA Award for Outstanding Undergraduate Researchers**

Deadline October 15, 2018

*Full articles on award programs begin on page 2.*

### CRA Taulbee Survey Announcement

The 2018 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.

*See page 10 for full article.*

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# Nominations Open for CRA Distinguished Service and A. Nico Habermann Awards



The Computing Research Association invites nominations for the 2019 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 of support from distinguished members of the computing research community who are familiar with the candidate's service accomplishments and must include a copy of the candidate's current curriculum vitae.

[Submit nominations here.](#)

## 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.](#)

Questions or comments may be addressed to [awards@cra.org](mailto:awards@cra.org).

The deadline for receipt of nominations is December 7, 2018.

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

# Nominations Open for 2019 CRA Award for Outstanding Undergraduate Researchers



**CRA-E**

Computing Research Association  
Education

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.

**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 2018. 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](mailto:undergradawards@cra.org). The deadline for nominations is **Monday, October 15, 2018**.

Microsoft Research and **Mitsubishi Electric Research Labs** sponsor the CRA Outstanding Undergraduate Researchers Award Program in alternate years. The 2018 award is being sponsored by Microsoft Research. 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 (**NSF 16-588**). Applications for GRFs are due one week after the CRA award nominations, on October 22, 2018.

Please share this document with your colleagues!

# Thermodynamic Computing Workshop - Call for White Papers



CCC

Computing Community Consortium  
Catalyst

*By CCC Staff*

The **Computing Community Consortium** (CCC) will hold a workshop from January 3rd to 5th, 2019 in Hawaii to create a vision for thermodynamic computing, a statement of research needs, and a summary of the current state of understanding of this new area. Workshop attendance will be by invitation only and travel expenses will be available for select participants. **We seek short white papers to help create the agenda for the workshop and select attendees.**

Thermodynamics has a long history in the engineering of computing systems due to its role in power consumption, scaling, and device performance [1],[2]. In a different context, thermodynamically motivated algorithmic techniques are prevalent and highly successful in areas such as machine learning [3], simulated annealing [4], and neuromorphic systems. The foundational thinking underlying much of the existing technology derives largely from equilibrium properties of closed thermodynamic systems. We aim to foster a community to extend these foundations into the domain of non-equilibrium thermodynamics toward the development of a new class of technologies that we call open thermodynamic computers.

The overall intuition is that striving for thermodynamic efficiency is not only highly desirable in hardware components, but may also be used as an embedded capability in the creation of algorithms: can dissipated heat be used to trigger adaptation/restructuring of (parts of) the functioning hardware, thus allowing hardware to evolve increasingly efficient computing strategies? Recent theoretical developments in non-equilibrium thermodynamics suggest that thermodynamics drives the organization of open systems as a natural response to external input potentials; that is, that these systems adapt as they dissipate energy, enter low dissipation homeostatic states and as a result 'learn' to 'predict' future inputs [5],[6]. For example, lower bounds on thermodynamic efficiency in driven systems (away from equilibrium), indicate that systems have to remain relevant, predictive information in order to be thermodynamically efficient [7],[8]. This strategy is, of course, the same as what is followed in machine learning (and, in general, in science): predictive inference [9]. This interesting connection between energy efficiency and information processing inspires us to bring together researchers in the various disciplines with the goal of building the foundations that would allow us to build radically different computing systems.

This CCC workshop will gather a set of leading researchers working to define open thermodynamic computers, describe the reasons that they should be studied, enumerate the major challenges that lay before us, and create a strategy for a way forward. We seek a diverse group of physical theorists, electrical and computer engineers, and electronic / ionic device researchers with a strong understanding of thermodynamics.

**For this workshop, we request whitepapers of no more than two pages. Topics of interest include, but are not limited to:**

- Non-equilibrium thermodynamic theory and its implications for self-organizing computing technologies, such as fluctuation-dissipation theorems and their ramifications regarding homeostasis, learning by prediction, stability, and plasticity.
- Novel device and component concepts that change and retain state (learn) in response to the thermodynamics of their environment, which may be suitable as the evolvable elements for future for thermodynamic computers.
- System concepts that integrate human-directed programmability and thermodynamically evolvable elements.
- Concepts to integrate and embed thermodynamic computers into an open environment of electrical and information potential.
- Non-equilibrium, thermodynamically inspired machine learning techniques and algorithms, such as simulated annealing in complex non-equilibrium environments and unsupervised learning by prediction.
- Challenge problems to motivate the development of thermodynamic computers.



## Thermodynamic Computing Workshop (*continued*)

Authors of white papers may be asked to participate in teleconferences to develop an agenda prior to the workshop.

**Please submit your white paper by October 5, 2018 to this registration form.** For more information, please visit **the workshop website**. The organizing committee will notify the selected attendees by October 26th. Should you have any questions, please contact Khari Douglas at **kdouglas@cra.org**.

Thank you,

The Organizing Committee:

Tom Conte, Prof. of Computer Science, Georgia Inst. of Technology

Erik DeBenedictis, Sandia National Laboratories

Natesh Ganesh, Univ. of Massachusetts, Amherst

Todd Hylton, Prof of Practice ECE, UC San Diego

Susanne Still, Prof. of Information & Computer Science, Univ. of Hawaii, Minoa

John Paul Strachan, Hewlett Packard Labs, HPE

Natesh Ganesh, Univ. of Massachusetts, Amherst

Stan Williams

### References:

1. Frank, Michael P. "The physical limits of computing." *Computing in Science & Engineering* 4.3 (2002): 16-26.
2. Lloyd, Seth. "Ultimate physical limits to computation." *Nature* 406.6799 (2000): 1047.
3. Dayan, Peter, et al. "The helmholtz machine." *Neural computation* 7.5 (1995): 889-904.
4. Černý, Vladimír. "Thermodynamical approach to the traveling salesman problem: An efficient simulation algorithm." *Journal of optimization theory and applications* 45.1 (1985): 41-51.
5. N. Ganesh, "A Thermodynamic Treatment of Intelligent Systems," *2017 IEEE International Conference on Rebooting Computing (ICRC)*, Washington, DC, 2017, pp. 1-4.
6. Perunov, Nikolay, Robert A. Marsland, and Jeremy L. England. "Statistical physics of adaptation." *Physical Review X* 6.2 (2016): 021036.
7. Still, Susanne, et al. "Thermodynamics of prediction." *Physical review letters* 109.12 (2012): 120604.
8. Still, Susanne. "Thermodynamic cost and benefit of data representations." *arXiv preprint arXiv:1705.00612* (2017).
9. Still, Susanne. "Information bottleneck approach to predictive inference." *Entropy* 16.2 (2014): 968-989.

### Topics out of scope include:

- Machine learning accelerators.
- Established machine-learning techniques.
- Brain simulations / models / simulators.
- Novel, programmable computing systems.

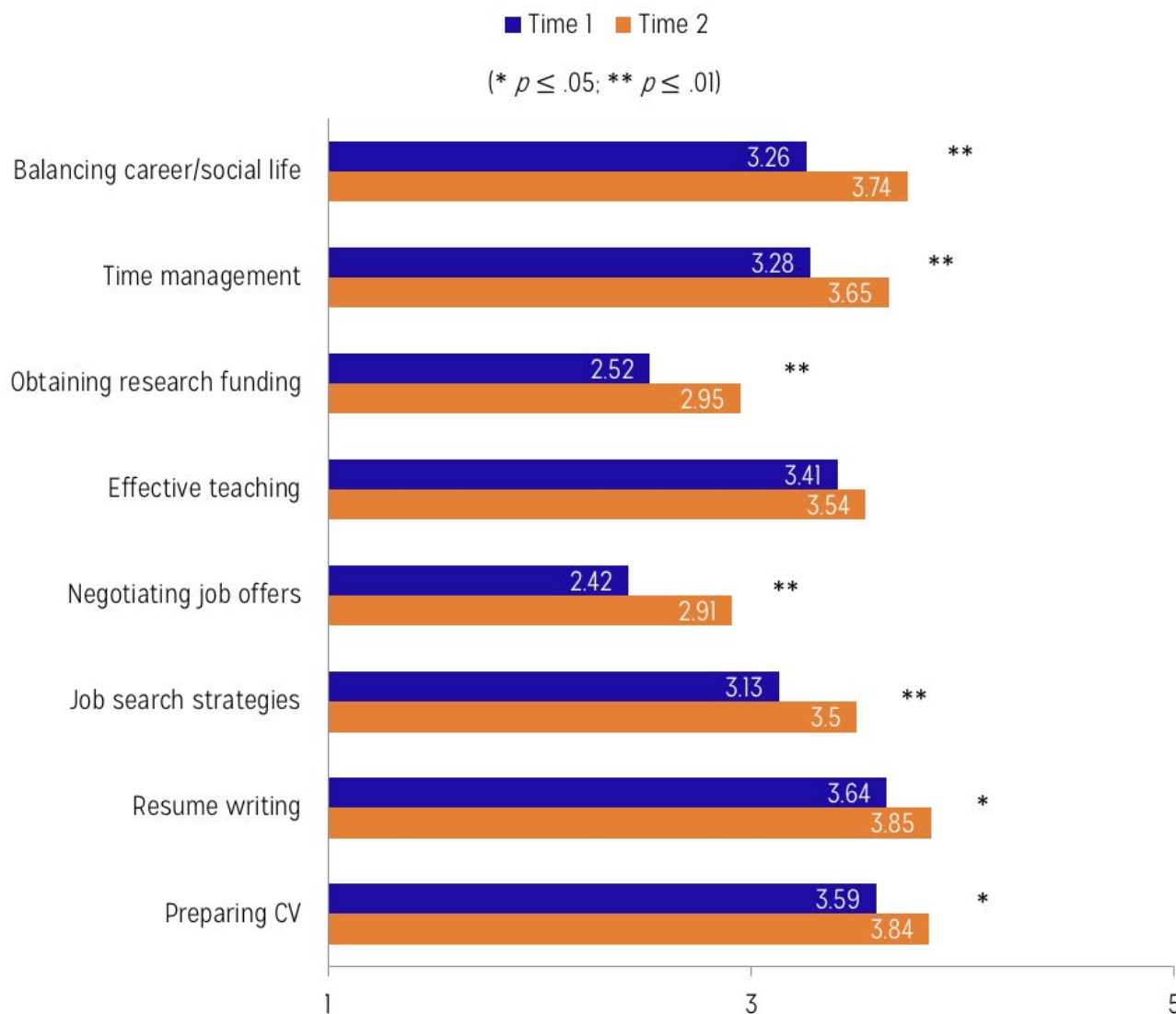
# Participants in the CRA Grad Cohort for Underrepresented Minorities + Persons with Disabilities Report Stronger Professional Skills After Attending the Workshop



**CERP**

Computing Research Association  
Evaluation

*By Heather M. Wright, Associate Director of CERP*



This spring, CRA launched a new program called [Grad Cohort for Underrepresented Minorities + Persons with Disabilities \(Grad Cohort URMD\)](#), which was modeled after the [CRA-W Grad Cohort for Women](#) workshop that has been running since 2004. Just like CRA-W Grad Cohort for Women, Grad Cohort

URMD is a two-day workshop for underrepresented students in graduate degree programs in computing. The goals of Grad Cohort URMD include providing strong mentorship, facilitating students' professional networks, fostering a sense of belonging, and bolstering professional skills necessary for a





**CERP**

Computing Research Association  
Evaluation

## Report Stronger Professional Skills *(continued)*

successful progression into computing research careers.

CERP evaluated the inaugural Grad Cohort URMD event. CERP found that compared to before the workshop, participants reported stronger professional skills after attending Grad Cohort URMD. This finding makes sense, as Grad Cohort URMD hosts sessions on balancing priorities and managing time, as well as strategies for navigating the job search for students at both the Master's and PhD levels. Finally, Grad Cohort URMD also provides one-on-one mentoring sessions for career advisement and CV/Resume review.

Grad Cohort URMD will begin accepting applications in October 2018 for the next workshop to be held in March 2019. For more details about CERP's findings from their evaluation of the 2018 Grad Cohort URMD workshop, visit [CERP's website](#).

### Notes:

- [1] CERP evaluated Grad Cohort URMD using a pretest/posttest methodology, wherein participants completed a survey two-weeks before the workshop and then immediately following the workshop. In the survey, participants were asked to rate their knowledge in the following items on a scale from (1) Very poor to (5) Very strong: "preparing my curriculum vitae," "resume writing," "job search strategies," "negotiating job offers," "effective teaching," "obtaining funding for research," "time management strategies," and "how to balance my career and social life."
- [2] Results were generated using a paired samples t-test on each professional skill, treating Time as a within-subjects variable. Statistical significance was determined using  $p \leq .05$ . Time 2 means are compared against Time 1 means. In the figure, (\*) signifies statistical significance at the  $p \leq .05$  level and (\*\*) signifies statistical significance at the  $p \leq .01$  level.

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 CNS-1246649. 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.

# Participants Reflect on the 2018 CRA URMD Grad Cohort in Short Video



Listen to what participants have to say about the inaugural **CRA Graduate Cohort for Underrepresented Minorities and Persons with Disabilities** (URMD Grad Cohort) in this recently released video.

On March 16-17, 2018, approximately 100 graduate students in computing and more than 20 speakers assembled in San Diego, CA, to convene the CRA URMD Grad Cohort. It was the first gathering of its kind hosted by CRA. This new iteration of the Grad Cohort Workshop focused on the following underrepresented groups in computing: Alaska Native, Black/African

American, Hispanic, Native American, Native Hawaiian and other Pacific Islander, and persons with disabilities.

## Thank You, Sponsors!

The 2018 CRA URMD Workshop was made possible through generous contributions from CRA, the National Science Foundation, AccessComputing, Whova, Google, and the Association for Computing Machinery.

This program is based upon work supported by the National Science Foundation under Grant Number (I246649). Any opinions, findings, and conclusions or recommendations

expressed do not necessarily reflect the views of the National Science Foundation.

We are currently accepting sponsorship for the URMD Grad Cohort Workshop. We welcome sponsorship at any level and would be happy to provide recognition in all printed and web materials. For more information, contact Erik Russell at [erik@cra.org](mailto:erik@cra.org).

## 2019 Workshop

The 2019 CRA URMD Grad Cohort will be held at the Hilton Waikoloa Village in Hawaii on March 22-23, 2019. Applications will open in early October. Click [here](#) to subscribe to updates.

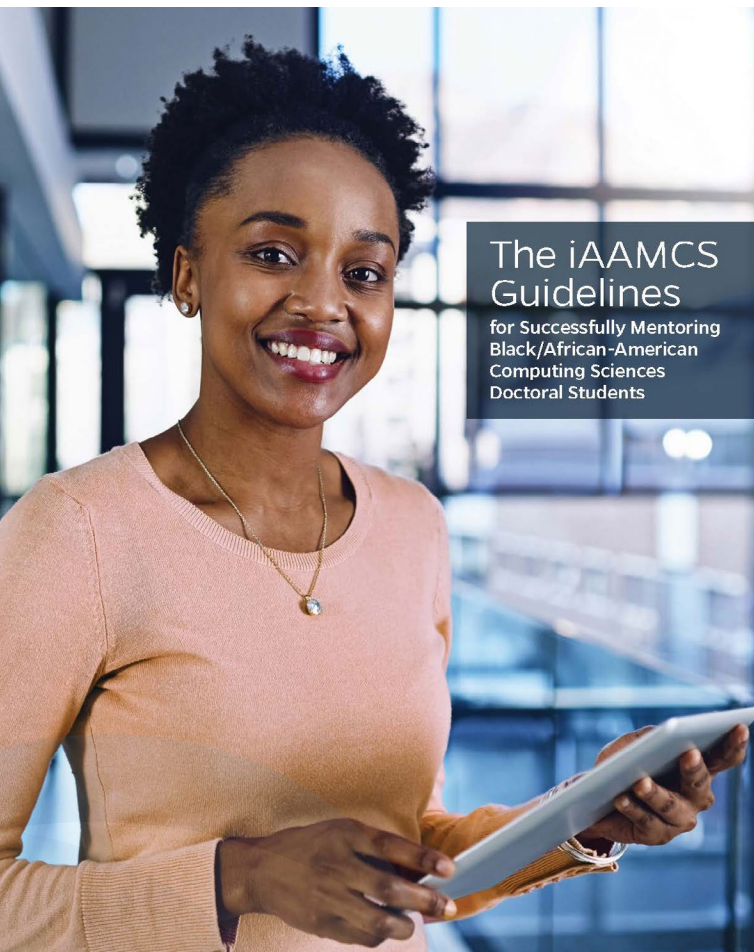


# Expanding the Pipeline: iAAMCS Releases Guidelines for Successfully Mentoring Black/African-American Computing Sciences Doctoral Students



**CRA-W**

Computing Research Association  
Women



**Although the iAAMCS Guidelines serve as best practices for mentoring African-American students in computing, these strategies are useful for optimal mentoring all students.**

These guidelines were established to articulate successful strategies for mentoring African-American doctoral students in Computing Sciences (CS). iAAMCS defines “student mentoring” as the process of supporting, encouraging and guiding students’ academic and social progress with the goal of facilitating career and personal development. Grounded in project-based results and similar empirical research, the following guidelines emerged: (1) recruit strategically, (2) establish community, (3) foster a research culture, (4) provide holistic advising, (5) provide funding and (6) promote professional development. iAAMCS hopes that institutions, departments and faculty use these guidelines to bolster the participation of African-American students pursuing doctoral degrees in CS.

Although the iAAMCS Guidelines serve as best practices for mentoring African-American students in computing, these strategies are useful for optimal mentoring all students. iAAMCS data suggests that implementation of the practices outlined in these guidelines will enable African-American students to persist and graduate in CS PhD programs across the US. Integral to the iAAMCS Guidelines is the assertion that inclusion is key to the success of African-Americans in CS and that inclusion is the responsibility of all campus constituents. Using the “7 Barriers to STEM Disciplines and the PhD” as a rubric\*, the following guidelines aim to mitigate the challenges students face in pursuit of their doctoral degrees.

Click [here](#) to download a pdf of the guidelines.

\*Jackson, J.F.L., Charleston, L. J., Gilbert, J.E., & Seals, C., (2013) **Changing Attitudes About Computing Science at Historically Black Colleges and Universities: Benefits of an Intervention Program Designed for Undergraduates**, *Journal of African American Studies*, 17, 2, pp. 162-173.

**This work is supported by NSF BPC-A: Award No. 1457855**

# CRA Taulbee Survey Announcement

The 2018 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.

## Change to Data Collection on Teaching Faculty

There is a major change beginning this year for teaching faculty data collection. Based on last fall's Teaching Position Survey and the work of the CRA Teaching Faculty committee, we will be separating the group we previously called non-tenure-track teaching faculty into two categories: those with more professor-like responsibilities, and those who are more instructor-like. Details on this division and how to categorize your academic unit's teaching faculty will be provided in the survey instructions.

## Additional Questions In This Year's Survey

In addition to the usual questions about students and faculty, this year's survey will include the Department Profiles questions last asked in 2015 (teaching load, department space, etc.) and will repeat some of the questions asked in the 2015 survey on the enrollment surge so that we can see what further impact may have resulted from three additional years of growth.

## Taulbee Schedule

<b>By September 17</b>	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. Pdf will be available for data gathering.
<b>September 19</b>	Both Salary and Main surveys open for input.
<b>November 27</b>	Due date for salary section.
<b>Late December</b>	Preliminary salary report available to participants.
<b>January 15, 2019</b>	Due date for the main Taulbee section.
<b>April 2019</b>	Full Taulbee report to CRA members and participating departments.
<b>May 2019</b>	Published in <i>CRN</i> .

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](mailto:bizot@cra.org)

# Former CRA Board Named Dean of Simmons' College of Organizational, Computational, and Information Sciences



**Marie desJardins**

Simmons University has announced the appointment of Marie desJardins, as Dean of the College of Organizational, Computational, and Information Sciences (COCIS). desJardins is a former CRA board member and current chair of the CRA Dean's Group.

In her new position, desJardins will work with faculty, students, and the Simmons community to build a new interdisciplinary college to integrate computational disciplines, traditional and digital information sciences, and the business school, approaching entrepreneurship and leadership in a new, more robust way. The future of COCIS will build on Simmons' historic commitment to women's education and its thoughtful approach to empowering women to be leaders in their fields, particularly in STEM-based industries. The disciplines represented within COCIS align well with desJardins's experience in artificial intelligence research, computing ethics, computing education, and diversity in computing.



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[microsoft.com/research](https://microsoft.com/research)



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**Helen Wright**, Senior Program Associate, Computing Community Consortium

## Column Editor

Expanding the Pipeline  
**Patty Lopez**, Intel



# Professional Opportunities

## Bard College

### *Full-time, Tenure-track Assistant Professor in Computer Science*

Bard College invites applications for a full-time tenure-track position in computer science at the rank of assistant professor to begin fall 2019. Applications are sought in all areas of computer science.

The successful candidate will have a commitment to quality, innovative undergraduate teaching at a liberal arts college; maintaining an active research program; contributing to the general education curriculum; and engaging with the life of the college. Candidates should have a Ph.D. in Computer Science or a related area (e.g. Applied Mathematics, Computational Science, Psychology, or Design) or be nearing its completion by September of 2019.

To apply, please send a cover letter, curriculum vitae, teaching and research statements, three letters of recommendation (at least one addressing teaching) through Interfolio.com at: <http://apply.interfolio.com/52834>.

Review of applications will begin October 15, 2018. For more information on the Computer Science Program at Bard, visit <http://cs.bard.edu>, or contact Keith O'Hara at [kohara@bard.edu](mailto:kohara@bard.edu).

Bard College is an equal opportunity employer and is especially interested in candidates who intend to contribute to the diversity goals of the institution.



**BENTLEY**  
UNIVERSITY

### **Tenure Track Assistant/Associate Professor, User Experience**

Bentley University, located in Waltham, Massachusetts, invites applications for a tenure-track position in the areas of user experience, HCI, product design, or related fields to start in fall 2019. We seek a creative scholar who would join the interdisciplinary faculty of Bentley's internationally renowned user experience graduate program. We are also open to candidates in industry in these areas.

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

Bentley University is an AACSB and EQUIS accredited business university located 11 miles outside of Boston. Bentley leads higher education in the integration of global business with the arts and sciences. We seek faculty and staff who represent diverse backgrounds, interests, and talents. We strive to create a campus community that welcomes the exchange of ideas, and fosters a culture that values differences and views them as a strength in our community.

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

#### **Minimum Qualifications:**

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

#### **Application Instructions:**

To apply to this position, please submit an online application directly to: [https://bentley.wd1.myworkdayjobs.com/faculty/job/Bentley-Campus/Tenure-Track-Assistant-Associate-Professor--User-Experience\\_R0000006](https://bentley.wd1.myworkdayjobs.com/faculty/job/Bentley-Campus/Tenure-Track-Assistant-Associate-Professor--User-Experience_R0000006)

## Boston University

### *Assistant Professor*

The Department of Electrical & Computer Engineering (ECE) at Boston University (BU) anticipates openings for multiple Tenure-Track Assistant Professor positions in the area of computer systems and software with impact in areas such as mobile health and computing, biomedical devices, neuromorphic computing and AI, machine learning, security, blockchain and distributed computing, the Internet of Things and cyberphysical systems. The BU footprint in these areas is growing significantly. Candidates with research programs that

transcend the traditional boundaries of ECE are welcome to explore affiliated appointments in appropriate departments, such as Biomedical Engineering, Computer Science, and Mathematics and Statistics.

BU ECE is a rising department and attracts exceptional graduate student and faculty talent at all levels. Research activity by primary faculty is approximately \$26M per year. The College of Engineering is currently ranked 35th in the nation by US News and World Report, and 15th among private universities. BU ECE faculty lead and participate in several high-profile, multidisciplinary research centers, including the Center

# Professional Opportunities

for Information and Systems Engineering, the Hariri Institute for Computing and Computational Science and Engineering, the Center for Systems Neuroscience, the Rajen Kilachand Center for Integrated Life Science and Engineering, and the Photonics Center.

We are looking for outstanding candidates with a Ph.D. in a relevant area who demonstrate potential for leading an independent and vibrant funded research program in their area of expertise, teach effectively at the graduate and undergraduate levels, and utilize their expertise to strengthen collaborative research within the department and beyond.

Boston University is an AAU institution with a rich tradition dedicated to inclusion and social justice. We are proud that we were the first American university to award a PhD to a woman and that Martin Luther King Jr. received his PhD here. We are dedicated to increasing the participation of all talented students and are committed to the pursuit of engineering by underrepresented groups at BU and beyond.

For more information about BU ECE, please visit: <http://www.bu.edu/ece/>

We encourage candidates to apply early. Applications received by December 15, 2018 will be given full consideration.

Boston University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national

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

## Carleton College

### *Assistant Professor, Tenure-Track*

Carleton College invites applications for a tenure-track position in computer science, beginning September 1, 2019. A Ph.D. in hand or its imminent completion by the start date is required. We expect to make appointments at the assistant professor level, but highly qualified candidates at any rank will be considered. We are interested in candidates with any specialization in computer science that will complement the existing strengths of the department. Candidates having an interest in teaching courses in operating systems and related fields are especially encouraged to apply.

Carleton is a highly selective liberal arts college with outstanding, enthusiastic students. We seek an equally enthusiastic computer scientist committed to excellence in teaching, curriculum design, ongoing research, and undergraduate research advising. We are particularly interested in applicants who have a commitment to attracting and retaining students from underrepresented groups. The appointee would be expected to teach courses at a range of levels, from the introductory level to advanced undergraduate electives.

Carleton's Department of Computer Science ([cs.carleton.edu](http://cs.carleton.edu)) includes eight faculty and an experienced full-time system

administrator, and typically graduates between 50 and 60 majors annually.

To apply, please visit the Carleton College website at [jobs.carleton.edu](http://jobs.carleton.edu) and complete the online application, including a cover letter, CV, a graduate transcript, and contact information for writers of three letters of reference (at least one of which should address your teaching), a statement about teaching in an undergraduate liberal arts environment and how you would contribute to a college community that embraces a diversity of people and perspectives as one of its core values, and a statement about research and other scholarly activity in an undergraduate liberal arts environment. Questions about the position or the application process may be directed to [csjobs@carleton.edu](mailto:csjobs@carleton.edu). Applications completed by Friday, November 9, 2018, including reference letters, will receive full consideration.

Carleton College does not discriminate on the basis of race, color, creed, ethnicity, religion, sex, national origin, marital status, veteran status, actual or perceived sexual orientation, gender identity or expression, status with regard to public assistance, disability, or age in providing employment or access to its educational facilities and activities. We are committed to developing our faculty to better reflect the diversity of our student body and American society. Women and members of minority groups are strongly encouraged to apply.

## 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 1, 2018. To ensure full consideration of your application, please submit all materials no later than December 3, 2018. 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://lti.cs.cmu.edu/news/lti-hiring>

**Machine Learning Department:**  
[http://www.ml.cmu.edu/Faculty\\_Hiring.html](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](mailto: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.

## Clark University

### *Tenure Track Assistant Professor of Computer Science*

The Department of Mathematics and Computer Science at Clark University invites applications for a tenure track Assistant Professor position in Computer Science starting Fall, 2019. Candidates are expected to have a Ph.D. in Computer Science or a closely related field at the time of appointment. Preference will be given to applications from the broad field of Data Science, especially Knowledge Discovery, Machine Learning, Data Mining, and Network Science. Outstanding candidates in other fields will also be considered.

We look for an energetic and independent colleague who can thrive in the environment of a small urban liberal arts research university and contribute to the success and diversity of our community, and who seeks a position that combines scholarship, teaching and involvement in the life of the University. The new faculty will have opportunities to develop new

# Professional Opportunities

courses and programs and establish collaborations with faculty in Computer Science and other disciplines such as Mathematics, Biology, Chemistry, Physics, Economics, Geography and Management.

Clark has been a recognized leader in innovative research and education since its founding in 1887. The Department of Mathematics and Computer Science offers robust undergraduate programs in both disciplines. Our faculty are committed researchers and teachers, and actively collaborate with faculty at Clark and other institutions, including some in Boston. Our students participate in original research, place very highly in programming contests, and our graduates have enrolled in distinguished academic institutions or are hired by leading private companies. Additional information on the department is available at <http://www.cs.clarku.edu>.

To apply, please submit to the Computer Science Search Committee ([cssearch@clarku.edu](mailto:cssearch@clarku.edu)) one zip file which includes a cover letter, a curriculum vita, statements of research and teaching, and up to three key publications. Please arrange for at least three letters of recommendation to be sent directly to the search committee by the referees. At least one of those letters should comment on teaching. Review of applications will begin on October 15, 2018 and continue until the position is filled.

Clark University embraces equal opportunity and affirmative action as core values: we believe that cultivating an environment that embraces and promotes diversity is fundamental to the success

of our students, our employees, and our community. This commitment applies to every aspect of education, services, and employment policies and practices at Clark. Our commitment to diversity informs our efforts in recruitment, hiring and retention. All positions at Clark share in the responsibility for building a community that values diversity and the uniqueness of others by exhibiting integrity and respect in interacting with all members of the Clark community to create an atmosphere of fairness and belonging. We strongly encourage members from historically underrepresented communities, inclusive of all women, to apply.

## Columbia University

### *Assistant Director, Career Services*

Columbia University's Graduate School of Journalism is currently seeking an Assistant Director, Career Services. Reporting to the Associate Dean, the incumbent works to implement a multifaceted strategy of educating, advising and supporting students in their efforts to find employment opportunities. Serves as the department's primary career counselor for a portfolio of students with a wide variety of interests and specializations, with a particular focus and leadership role working with faculty and students in the new data degree program, dual degree computer science candidates and students interested in computational and investigative journalism. Responsible for developing a strategic plan with annual reports to identify and build

out relationships with key companies, players and targets of opportunity at the intersection of technology and media and in the evolving realms of data and computational journalism.

Bachelor's degree and/or equivalent required. Master's degree preferred and a minimum of 3-5 years of related experience, preferably on the editorial side of journalism, student counseling and/or academic management in the field.

For a more detailed description, and/or to apply for this position, please visit the following link:

<https://jobs.columbia.edu/applicants/Central?quickFind=170266>

Columbia University is an equal opportunity employer committed to creating and supporting a community diverse in every way: race, ethnicity, geography, religion, academic and extracurricular interest, family circumstance, sexual orientation, socio-economic background and more.

## Elmhurst College

### *Tenure-track Assistant Professor of Computer Science*

Elmhurst College invites applications for a tenure-track assistant professor of Computer Science in the Department of Computer Science and Information Systems (CSIS). Scholarly interest in areas include, but are not limited to: machine learning, intelligent systems, database systems, security, computer networking, Internet of Things, compilers, or parallel systems. Main teaching responsibilities



include introductory courses such as CS I & II, as well as upper division electives within the CS curriculum. The teaching load is six courses per year.

Evidence of outstanding teaching or teaching potential is essential. Candidates should have a commitment to creating an inclusive learning environment for a diverse student body. A PhD in Computer Science, a Computational Science related discipline, or Applied Mathematics with significant experience in software development is required by September 1, 2019.

Elmhurst College offers more than 60 undergraduate majors, 17 graduate programs, degree-completion programs for busy adults, and the acclaimed Elmhurst Learning and Success Academy for young adults with developmental disabilities. Elmhurst College is one of the Top 10 Colleges in the Midwest, according to U.S. News & World Report; and U.S. News, Money and Forbes magazines consistently rank Elmhurst as one of the Midwest's best values in higher education. Recruiting and retaining a diverse workforce is a critical component of the College's mission, vision and core values. Our commitment stems from the belief that an institution of higher learning is enriched by the presence of diversity. Elmhurst College is an EO Employer. Elmhurst College prohibits discrimination and harassment of any type and affords equal employment opportunities to employees and applicants without regard to race, color, national origin, gender, sexual orientation, religion, age, creed, ancestry, veteran

## ETH zürich

### Professors or Assistant Professors (Tenure Track) of Computer Science Education

→ The Department of Computer Science ([www.inf.ethz.ch](http://www.inf.ethz.ch)) at ETH Zurich invites applications for two positions with focus on the following areas within computer science. For each area, several possible examples (not exhaustive) of expertise are provided.

→ **Computer Science and Education** (candidates have strong research competence in a core area of computer science and have a record of engagement in outreach to schools)

**Educational Data Science** (modelling of learning behaviour, mechanism design, applications of machine learning to education)

**Education Technology** (assignment generation, feedback and grading for programming and math assignments, HCI aspects of education technology)

→ Please apply for only one of the above three areas as all applications will be jointly reviewed.

Applicants should be strongly rooted in computer science, have internationally recognized expertise in their field and pursue research at the forefront of computer science. Successful candidates should establish and lead a strong research programme. They will be expected to supervise doctoral students and teach both undergraduate and graduate level courses (in German or in English). Collaboration in research and teaching is expected both within the department and with other groups of ETH Zurich and related institutions.

→ Assistant professorships have been established to promote the careers of younger scientists. ETH Zurich implements a tenure track system equivalent to other top international universities.

→ **Please apply online: [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)**

→ Applications include a curriculum vitae, a list of publications with the three most important ones marked, a statement of future research and teaching interests, the names of three references, and a description of the three most important achievements. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Lino Guzzella. The closing date for applications is 30 September 2018.** ETH Zurich is an equal opportunity and family friendly employer and is responsive to the needs of dual career couples. We specifically encourage women to apply.

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status, marital status, disability, or any other characteristic protected by law.

The CSIS department houses three traditional undergraduate majors: CS, Computer Gaming and Entertainment Technology, and Information Systems. It also offers master-level degrees in Data Science and Computer Information Technology. The CS major designed is based upon the ACM2013 guidelines. Class sizes range between 10-20 students. Student-faculty research is encouraged and a willingness to participate in extracurricular CS-related activities, such as a local programming competition or e-sports, is a plus.

Applications are accepted online only at <http://elmhurst.simplehire.com/postings/836>

Additional information about Elmhurst College may be accessed on our website: <http://www.elmhurst.edu>. Review of applications will begin November 1, 2019. Questions can be directed to Dr. John Jeffrey, Department Chair of Computer Science and Information Systems, [johnj@elmhurst.edu](mailto:johnj@elmhurst.edu).

## Gustavus Adolphus College

*Assistant Professor of Computer Science*

Gustavus Adolphus College invites applications for a tenure-track position of Assistant Professor of Computer Science to begin September 1, 2019. We seek candidates who have an earned doctorate in computer science (or a closely-related discipline), but will consider candidates who have achieved

ABD status. The department is considering applicants with prior experience teaching programming either in a classroom or laboratory setting and will have the ability to teach introductory computer science courses.

Visit <http://gustavus.edu/jobs> for application instructions.

Review of applications will begin on October 19, 2018, and continue until the position is filled.

EOE Employer/Disabled/Vet

## Florida State University

The Computer Architecture and System Laboratory (CASTL) at Florida State University has a postdoctoral researcher position on large-scale parallel computing and data analytics. This is a full time, two-year, renewable position. The successful candidate must have earned a PhD in computer science or related disciplines and at least one first-author research publication in a reputable systems conference or journal.

To apply, visit: <http://hr.fsu.edu>, click **Job Opportunities**, then enter **43971** as the job ID.

Questions regarding the position can be directed to Prof. Weikuan Yu ([yuw@cs.fsu.edu](mailto:yuw@cs.fsu.edu)).

## Kansas State University

*Multiple tenure-track positions in Computer Science*

The department of Computer Science (CS) at Kansas State University invites applications for tenure-track positions in

computer science at all levels (Assistant, Associate, or Full Professor) starting in Fall 2019. Outstanding candidates will be considered for open endowed positions. The department is accepting applications in areas intersecting our core focus areas: cybersecurity, high-assurance software engineering, cyber-physical systems, and data science. Women and members of under-represented groups are highly encouraged to apply. Successful applicants will demonstrate commitment to both teaching and research. A doctorate degree in computer science or related disciplines is required; salary will be commensurate with qualifications.

For details: <http://careers.k-state.edu/cw/en-us/job/504354/assistant-associate-full-professor-computer-science> <http://careers.k-state.edu/cw/en-us/job/504354/assistant-professor-associate-professor-or-professor-in-computer-sciences>

Kansas State University actively seeks diversity among its employees. Kansas State University is an EOE of individuals with disabilities and protected veterans. Background check required.

## Kent State University

*Faculty Tenure Track - 9 Month  
Computer Science  
[Job #999378]  
Kent Campus - Kent, OH*

**Opportunity:** Kent State University's Department of Computer Science is continuing its search seeking applicants to fill tenure-track positions. Review of

# Professional Opportunities

applications will begin in late August and continue until the position is filled.

We are looking for candidates in the following areas: immersive technologies and virtual reality, human-computer interaction, computer security, forensics, privacy, smart communities and internet of things, distributed systems and algorithms. Exceptional candidates in closely related areas are encouraged to apply.

The successful applicant will be expected to establish an extramurally funded research program, engage in collaborative research, direct theses and dissertations, teach and mentor students.

**Qualifications:** A Ph.D. degree in Computer Science or a related field. We encourage applicants with related industrial and/or post doctoral experience to apply. The position is available at the Assistant or Associate Professor ranks. Candidates at the Associate Professor level are expected to have a history of sustained extramural funding. Salary and startup funds are competitive and commensurate with academic qualifications and prior experience.

Our department offers the B.S., B.A., M.S., M.A., and Ph.D. degrees. It has 17 full time faculty, over 400 undergraduates and over 200 graduate students. Kent State University is located in Northeast Ohio and has a student population of approximately 28,000. The beautiful park-like campus is within walking distance from downtown Kent. The city has recently undergone a major rejuvenation and has a vibrant

town center with many new restaurants and shops. More information about the department can be found at <http://www.cs.kent.edu/>

**Application Process:** Interested applicants should upload cover letters, curriculum vitae, and statements of research and teaching interests to the Kent State University Human Resources website, <https://jobs.kent.edu>. Applicants should clearly identify their research focus areas in the cover letter.

Three letters of recommendation should also be provided either by email to [cssearch@cs.kent.edu](mailto:cssearch@cs.kent.edu) or by regular mail to:

Chair, Faculty Search Committee  
Department of Computer Science  
Kent State University  
PO Box 5190, Kent, OH 44242-0001

**For a complete description of this position and to apply online, visit our jobsite at <https://jobs.kent.edu>.**

**Equal Opportunity / Affirmative Action Employer / Disabled / Veterans**

**Apply Here** <http://www.click2apply.net/6cmjrk73j9w94xsx>

## Lafayette College, Easton, PA

### *Assistant Professor of Computer Science*

The Department of Computer Science at Lafayette College invites applications for a tenure-track position in computer science, to begin July 2019. The starting

salary is competitive.

The Department is an ABET accredited program consisting of six full-time tenure-track faculty positions, with a diverse set of interests ranging from theoretical computer science and computer systems to tutoring systems, recommendation systems, agent based systems, natural computing and biological modeling. The department is very supportive of faculty who do interdisciplinary work and consistently reaches out to other parts of the college to support computation in all its many forms.

The department offers Bachelor of Science and Bachelor of Arts degrees in computer science, as well as minors in computer science and computational methods. The teaching load is four courses in the first year, and five courses per year thereafter. Lafayette is very supportive of research with funds for conference/research travel available and the EXCEL Scholars student researcher program in which students work with faculty to support their research goals. For details about our program, please see: <http://compsci.lafayette.edu>.

Lafayette College is a highly selective private liberal-arts college located in the Lehigh Valley of Pennsylvania. The college is approximately 70 miles north of Philadelphia and 70 miles west of New York City.

Lafayette College is committed to creating a diverse community: one that is inclusive and responsive, and is supportive of each and all of its faculty, students, and staff. All members of the College community share a

# Professional Opportunities

responsibility for creating, maintaining, and developing a learning environment in which difference is valued, equity is sought, and inclusiveness is practiced. Lafayette College is an equal opportunity employer.

## Requirements:

- Applicants should have a Ph.D. (or be near completion) in computer science or a closely related field, a strong commitment to teaching, a demonstrated record in research, and be able to teach at least one systems course such as Networks, Operating Systems, Distributed Computing or Computer Organization.
- The successful candidate will be expected to engage with undergraduates in a diverse learning and working environment.

## To Apply:

Please submit a cover letter, curriculum vitae, teaching and research statements, and arrange for at least three reference letters to be submitted to [apply.interfolio.com/52686](http://apply.interfolio.com/52686). In your application, please address how your scholarship, teaching, mentoring, and/or community service might support Lafayette College's commitment to diversity and inclusion articulated in the College's diversity statement (<http://www.lafayette.edu/about/diversity-statement/>).

Only complete applications will be considered; applicants will be notified that a complete application has been received. Please direct inquiries to [compsci@lafayette.edu](mailto:compsci@lafayette.edu). Review of applications will begin November 1, 2018, and continue until the position is filled.

Lafayette College does not discriminate on the basis of race, color, national or ethnic

origin, disability, religion, age, military or veteran status, sex, sexual orientation, gender identity or expression, marital or familial status, pregnancy, genetic information, or any other characteristic protected by law in its educational programs and activities, admissions, or employment, as required by Title IX of the Educational Amendments of 1972, the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, Title VI and Title VII of the Civil Rights Act of 1964, and other applicable laws and College policies.

## Lawrence Berkeley National Laboratory

*2019 Luis W. Alvarez Postdoctoral Fellowship in Computing Sciences - 85397*  
**Organization:** CR-Computational Research

Apply now for the Luis W. Alvarez Postdoctoral Fellowship in Computing Sciences, sponsored by Lawrence Berkeley National Laboratory's Computing Sciences Area. Researchers in computer science, applied mathematics or any computational science discipline who have received their Ph.D. within the last three years are encouraged to apply. The successful applicant will work primarily with a research group within the Computing Sciences Area, and receive a competitive salary, professional travel allowance, relocation assistance, excellent benefits, and an opportunity to work in the dynamic San Francisco Bay Area.

Since its founding in 2002, Berkeley Lab's Luis W. Alvarez Postdoctoral Fellowship has cultivated exceptional early career scientists who have gone

on to make outstanding contributions to computational and computing sciences.

For consideration, applications are due November 2, 2018.

## How To Apply

Apply directly online at <http://50.73.55.13/counter.php?id=139178> and follow the on-line instructions to complete the application process.

## Middle Tennessee State University

*Computer Science Tenure-Track Faculty and Chair, Computer Science, Tenure-Track Faculty*

The Department of Computer Science at MTSU (<http://www.mtsu.edu/csc/>) invites applications for:

**For position 1** - Computer Science, Chair - Middle Tennessee State University seeks an innovative leader to chair the Department of Computer Science. The successful candidate must hold a Ph.D. in computer science or a related field and qualify for rank of full professor at time of employment. Candidate must have an extensive background in computer science; record of excellence in teaching, research, and grantsmanship; excellent communication and interpersonal skills; demonstrated vision and leadership; and experience and ability to work productively with faculty and students from diverse backgrounds. The position begins August 1, 2019. The successful candidate must hold a Ph.D. in computer science or related field. <https://mtsujobs.mtsu.edu/postings/7221>



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**For position 2** - Computer Science, Tenure-Track Faculty - The College of Basic & Applied Sciences, Department of Computer Science seeks a full time, tenure-track faculty position (#107460), at the assistant/associate professor rank. The position begins August 1, 2019. The successful applicant would have interdisciplinary research interests that fit within the Computational Science PhD program at MTSU. They would also be expected to teach both undergraduate and graduate level courses, create a productive research program, and engage students (including undergraduates) in research. Applicants are invited from all areas of computer science, but we are particularly interested in applicants whose work is tied to solving scientific problems using high performance computing and data mining. The position begins August 1, 2019. Ph.D. in Computer Science or closely related field required by August 1, 2019. <https://mtsujobs.mtsu.edu/postings/7106>

MTSU is an equal opportunity, affirmative action employer that values diversity in all its forms. Women, minorities, individuals with disabilities and protected veterans are encouraged to apply.

## Missouri State University

### *Assistant Professor, Computer Science*

The Computer Science Department at Missouri State University invites applications for a tenure-track Assistant Professor position starting Spring or Fall 2019. A PhD in CS or closely related field is required (ABD may be considered). Applicants are

invited from all areas of computer science, but candidates with experience in Security, Data Science, HCI, and VR/Games are highly encouraged to apply.

To learn more visit <https://jobs.missouristate.edu/postings/41144>.

Employment will require a criminal background check at University expense.

EO/AA/M/F/Veterans/Disability/Sexual Orientation/Gender Identity.

## National University of Singapore

### *Tenure-track Assistant Professor Positions in Computer Science*

The Department of Computer Science at the National University of Singapore (NUS) invites applications for tenure-track Assistant Professor positions in all areas of computer science. 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](http://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
- Provide the contact information of 3 referees when submitting your online application, or, arrange for at least 3 references to be sent directly to [csrec@comp.nus.edu.sg](mailto:csrec@comp.nus.edu.sg)
- Application reviews will commence immediately and continue until the positions are filled

If you have further enquiries, please contact the Search Committee Chair, Weng-Fai Wong, at [csrec@comp.nus.edu.sg](mailto:csrec@comp.nus.edu.sg)

## Occidental College

### *Assistant or Associate Professor of Computer Science*

### Position Summary:

The Department of Computer Science at Occidental College invites applications for a faculty position at the Assistant or Associate level in Computer Science. We

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seek a computer scientist with a strong interest in building Occidental's newly formed Computer Science major and who can contribute to its connections to other disciplines. While all areas of computer science will be fully considered, we have a preference for candidates with research interests in hardware, software systems (such as operating systems, databases, and networking), computer graphics, data science, or security.

The department mission is to foster interdisciplinary interactions around computation for faculty and students; expose a diverse group of students and faculty to techniques and tools of computer science, including the benefits and ethical concerns in applications; support students and faculty in cutting-edge computational research; and build department activities around high impact practices such as student research, community-based learning, international experiences, peer mentorship, and interdisciplinary approaches to learning.

Occidental College is a nationally-ranked small liberal arts institution situated in Los Angeles. Occidental is located in the culturally-rich neighborhoods of Eagle Rock and Highland Park, near Caltech, the Jet Propulsion Laboratory, the Natural History Museum, and other major research institutions. The College is committed to academic excellence in a diverse community and supporting interdisciplinary and multicultural academic programs that provide a gifted and diverse group of students with an educational experience that prepares them for leadership in a

pluralistic world. We, therefore, strongly encourage applications from candidates who will further Occidental's mission of excellence and equity in their teaching, scholarship, and/or service.

## **Qualifications, Duties And Responsibilities:**

Applicants should have a Ph.D. in Computer Science or related 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 department and the College.

## **Application Instructions:**

Applicants should submit the following:

1. a cover letter detailing your interest in teaching in a liberal arts environment;
2. a statement of teaching philosophy that includes a discussion of your demonstrated commitment to, past evidence of, and future plans for creating equitable opportunities for learning and mentoring especially for underrepresented students;
3. teaching evaluations, evidence of effective advising, or other data, if available;

4. a statement of research interests and experience, including how students will participate in and benefit from your research;
5. a curriculum vitae; and
6. three confidential letters of recommendation (request writers to send separately).

Electronic application materials should be addressed to Dr. Kathryn Leonard, Chair, Computer Science, and sent by email to [compsearch@oxy.edu](mailto:compsearch@oxy.edu). Review of applications will begin on September 16, 2018.

Occidental College is an Equal Opportunity Employer and does not unlawfully discriminate against employees or applicants on the basis of race, color, religion, sex, sexual orientation, gender identity, gender expression, pregnancy, breastfeeding or related medical condition, national origin, ancestry, citizenship, age, marital status, physical disability, mental disability, medical condition, genetic characteristic or information, military and veteran status, or any other characteristic protected by State or Federal Law.

We strongly encourage all underrepresented candidates, especially women and persons of color, to apply.

## **Saint Mary's College**

*Assistant or Associate Professor of  
Computer Science*

## **Institutional Description/Background:**

Saint Mary's College of California is a private, Catholic, comprehensive and

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co-educational university that engages students in rigorous critical thinking, promotes social justice, and educates for human fulfillment consistent with its liberal arts, Catholic and Lasallian traditions. The de La Salle Christian Brothers, the largest teaching order of the Roman Catholic Church, guide the spiritual and academic character of the College. An outstanding, committed faculty and staff who value shared inquiry, integrative learning and student interaction bring Saint Mary's heritage to life. Located on a stunning 420-acre campus in the Moraga Hills outside of San Francisco, Saint Mary's is known for its rigorous liberal arts education and its high quality graduate programs, including business, education, counseling, leadership, and the arts. Saint Mary's has a diverse student body of approximately 4,000 students, and the College's practices and policies reflect a commitment to inclusive excellence and a community in which all are valued, respected and supported.

For more information about Saint Mary's mission and history, see: <http://www.stmarys-ca.edu/about-smc/our-mission>.

## Faculty Responsibilities:

The faculty member will teach introductory programming CS electives and some classes in mathematics. The person will also be heavily involved in program and course development as we add classes to create the CS split major and ultimately the CS major. Saint Mary's faculty are expected to maintain an active scholarly agenda and demonstrate intellectual growth and significant achievement appropriate

to their field. Faculty also contribute to the mission and serve the College and community in many ways, including academic advising, student and community outreach, participation in departmental and College-wide committees, and the development and assessment of the College's Core Curriculum. Faculty are also encourage to teach in the College's Core Curriculum, January Term, and Collegiate Seminar programs.

## Faculty Qualifications:

The position involves teaching, advising, and administrative responsibilities involved in the Computer Science program at Saint Mary's College. A Ph.D. or other suitable terminal degree in Computer Science or closely related field is required. The College has been designated a Minority and Hispanic-Serving Institution; many Saint Mary's students are first-generation-to-college. Successful candidates must be able to engage and support students of color, women, and other underrepresented groups, and will be interested in participating in initiatives that aim to increase inclusivity.

A completed application includes a letter of interest that specifically addresses your qualifications and preparation to support the mission of the College, a teaching statement and research statement, contact information for three (3) references, and a curriculum vitae. For full consideration an application should be received by 10/31/18.

## Simon Fraser University

### *Teaching Faculty (Lecturer)*

The School of Computing Science invites applications for a full time continuing Lecturer position (Teaching Faculty). A successful candidate will be expected to teach various Computing Science courses at introductory and advanced levels at the Surrey and Burnaby campuses of SFU. Candidates are expected to have passion for teaching, excellent communication skills, enthusiasm for developing new courses, and working knowledge of modern teaching methods and supporting tools (e.g., automatic code grading, online course delivery, pair/peer programming, online discussion forums, automatic code similarity check, and MOOCs).

An M.Sc. in Computing Science or a related discipline is required. A Ph.D. or relevant industry experience would be an asset. Applicants with experience in the areas of systems, security, and software engineering will be given priority. The salary will be commensurate with qualifications and experience.

Simon Fraser University is located in metropolitan Vancouver, one of the most livable cities in the world. The School of Computing Science has been consistently ranked among the top computer science departments in Canada and internationally. The School currently has 52 faculty members, approximately 350 Ph.D. and M.Sc. students, and 2,000 undergraduate majors.

The review of applications will start on **September 15, 2018** and will continue

until the position is filled. For more information about Teaching Appointments at SFU see:

<https://www.sfu.ca/content/dam/sfu/faculty-relations/collective-agreement/CA.pdf>

To apply, submit your curriculum vitae and teaching statement, as well as the names and email addresses of three references to: <https://www.sfu.ca/computing/about/job-opportunities.html>. School of Computing Science Simon Fraser University, 8888 University Drive, British Columbia, Canada, V5A 1S6.

For questions or inquiries please contact: [cs-faculty-search@cs.sfu.ca](mailto:cs-faculty-search@cs.sfu.ca)

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

SFU is an equity employer and encourages applications from all qualified individuals including women, persons with disabilities, visible minorities, Indigenous Peoples, people of all sexual orientations and gender identities, and others who may contribute to the further diversification of the university.

Under the authority of the University Act personal information that is required by the University for academic appointment competitions will be collected. For further details see: [https://www.sfu.ca/vpacademic/Faculty\\_Openings/Collection\\_Notice.html](https://www.sfu.ca/vpacademic/Faculty_Openings/Collection_Notice.html)

## Texas A&M University/ College of Engineering

### *Multiple Academic Professional Track Faculty Positions*

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, and professor of practice 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](http://engineering.tamu.edu/cse)).

Applicants must have, at the minimum, an earned bachelor level degree for professor of practice level titles. 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 one merged pdf file that contains 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](http://www.tamengineeringcareers.org). Full consideration will be given to applications received by November 15, 2018. Applications received after that date may be considered until positions are filled. It is anticipated the appointment will begin fall 2018 or spring 2019.

The members of Texas A&M Engineering are all Equal Opportunity/Affirmative Action/Veterans/Disability employers committed to diversity. It is the policy of these members to recruit, hire, train and promote without regard to race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation or gender identity.

### External Applicants

If you are currently NOT a Texas A&M System employee please go to our external



# Professional Opportunities

career site to view our jobs. [https://tamus.wd1.myworkdayjobs.com/TEES\\_External](https://tamus.wd1.myworkdayjobs.com/TEES_External)

## Internal Applicants

If you currently ARE a Texas A&M System employee: [https://www.myworkday.com/tamus/d/task/1422\\$1.html](https://www.myworkday.com/tamus/d/task/1422$1.html)

## The University of Hong Kong

### *Tenure-Track Faculty Position - Artificial Intelligence*

Applications are invited for Professor / Associate Professor, full-time positions tenable from January 1, 2019. Applicants should have a Ph.D. degree in Computer Science, Computer Engineering, or a related field, with a strong commitment to research and teaching. A solid track record in research is essential. The position is open to all research areas in Computer Science, with preference given to candidates in the field of artificial intelligence and its subareas pertaining machine learning, computer vision, natural language processing and robotics.

More information can be found at: <http://jobs.hku.hk/jd.php?id=201801234>

Application and enquiries should be sent to [recruitment@cs.hku.hk](mailto:recruitment@cs.hku.hk)

## The University of Hong Kong

### *Tenure-Track Faculty Position - Quantum Information Theory*

Applications are invited for Associate Professor / Assistant Professor, full-time

positions tenable from January 1, 2019. Applicants should have a Ph.D. degree in Computer Science, Mathematics, Physics, or a related field, with a strong commitment to research and teaching. A solid track record in research is essential. The position is in Quantum Information Theory. Candidates in the areas of quantum complexity theory, quantum simulations, quantum machine learning, quantum Shannon theory, and quantum cryptography are particularly welcome to apply.

More information can be found at: <http://jobs.hku.hk/jd.php?id=201801235>

Application and enquiries should be sent to [recruitment@cs.hku.hk](mailto:recruitment@cs.hku.hk)

## The University of Texas at San Antonio

### *Assistant/Associate Professor in Electrical and Computer Engineering Cluster Hire: Artificial Intelligence*

The Department of Electrical and Computer Engineering at the University of Texas, San Antonio (UTSA) invites applications for one tenure-track/tenured level position starting Fall 2019 at the Assistant or Associate rank in Artificial Intelligence (AI) with primary research interest in AI and its applications in health systems, public health, biomedicine, and medical/health informatics. Required qualifications for the position include a Ph.D. degree in Electrical Engineering, Computer Engineering or related areas with outstanding academic credentials that clearly demonstrate their ability to conduct independent and successful

research in their areas of expertise and to build cross-disciplinary research programs. Responsibilities for the position include a high level of professional motivation for research, course development and teaching, and service.

Application packages should be submitted to: <https://jobs.utsa.edu/hr/postings/10118>. Applicants who are selected for interviews must be able to show proof that they are eligible and qualified to work in the United States by the time of hire. Incomplete applications will not be considered. Review of completed applications will begin immediately and will continue until the position is filled.

The UTSA is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

## Tufts University

### *Assistant Professor (multiple)*

#### **JOB DESCRIPTION:**

The Department of Computer Science at Tufts University invites applications for multiple tenure-track faculty positions to begin in September 2019. 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. We seek candidates at the rank

# Professional Opportunities

of Assistant Professor but exceptional candidates at the rank of Associate or Full Professor will also be considered.

We are especially interested in candidates with research in Artificial Intelligence, Machine Learning, Natural Language Processing, Robotics, Security, Systems for Data Science (meaning Operating Systems, Networking, or Databases with a focus on support for Data Science), and Algorithms applied to any of these areas. Exceptional candidates in other areas will be considered as well.

**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.

**TO APPLY:** Please submit your application online through Interfolio at <https://apply.interfolio.com/52397>. For assistance with Interfolio, please contact [help@interfolio.com](mailto:help@interfolio.com) or call 877-997-8807. Inquiries should be emailed to [ttsearch@cs.tufts.edu](mailto:ttsearch@cs.tufts.edu). Review of applications will begin December 15, 2018 and will continue until the positions are filled.

For more information, please visit <http://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>.

## Tufts University

*Lecturer (full time)*

### **JOB DESCRIPTION:**

The Department of Computer Science at Tufts University invites applications for a full-time Lecturer position to begin in Spring or Fall 2019. This is a full-time, nontenure-track position. The initial appointment will be for two years with the possibility of renewal contingent on annual performance review results.

Candidates may have expertise in any area of computer science or a closely related field including but not limited to Algorithms, Complexity, Artificial Intelligence, Analytics, Machine Learning, Databases, Distributed Systems, Computational Biology, Hardware-Software Interfaces, Human-Computer Interaction, Robotics, Mobile Development, Natural Language Processing, Power Management, Security, Software Development, Systems, Visualization, and Web Infrastructure and Design.

**QUALIFICATIONS:** The ideal Lecturer 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/52400>.

For assistance with Interfolio, please contact [help@interfolio.com](mailto:help@interfolio.com) or call 877-997-8807. Inquiries should be emailed to [ttsearch@cs.tufts.edu](mailto:ttsearch@cs.tufts.edu). Review of applications will begin October 15, 2018 and will continue until the positions are filled.

For more information, please visit <http://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>.

## University of Dayton

*Department of Computer Science  
Assistant Professor Position*

Are you seeking to engage in research and education that supports the common good?

Are you looking for a university which will enable your commitment to educating the next generation?

Are you excited about the opportunity to create and test experiential learning strategies?

Are you committed to growing participation of women and under-represented minorities in computer science?

# Professional Opportunities

If so, the University of Dayton Department of Computer Science is interested in you and encourages your application for a tenure-track faculty position at the assistant professor level. Candidates with research or professional experience in intelligent systems, deep learning, or autonomous systems are particularly encouraged to apply.

All applicants must have completed all course work needed for a Ph.D. in computer Science or closely related field, have a potential for quality teaching, be committed to excellence in undergraduate and graduate education with a focus on research, and have potential for scholarly research in intelligent systems, deep learning, or autonomous systems. For more information about the position with a complete list of qualifications, as well as how to apply, please see: <http://jobs.udayton.edu/postings/26705>

The University of Dayton is a top-tier, national, Catholic, research university with offerings from the undergraduate to the doctoral levels. Founded in 1850 by the Society of Mary, the University is a diverse community committed to advancing the common good through intellectual curiosity, academic rigor, community engagement and local, national and global partnerships. Guided by the Marianist educational philosophy, we educate the whole person and link learning and scholarship with leadership and service.

The Department of Computer Science offers Bachelor and Master Degrees in Computer Science, and also a certificate in Autonomous Systems and Data Science. In addition, the

Department is in the process of obtaining approval at the University and State level to offer a Ph.D. degree in Computer Science.

Interested persons should submit a cover letter, curriculum vitae, unofficial undergraduate and graduate transcripts, and a statement addressing teaching philosophy (including active and experiential learning) and a statement addressing research plans. If you do not currently have a Ph.D., a letter from your academic advisor discussing your current progress towards graduation and three letters of recommendation are also required for a complete application. Applications will be accepted through Dec 30, 2018. To attain its Catholic and Marianist mission, the University is committed to the principles of diversity, inclusion and affirmative action and to equal opportunity policies and practices. As an Affirmative Action and Equal Opportunity Employer we will not discriminate against minorities, females, protected veterans, individuals with disabilities, or on the basis of sexual orientation or gender identity.

## University of Massachusetts Lowell

### Assistant Professor - Computer Science (Multiple Positions)

The Computer Science Department at the University of Massachusetts Lowell invites applications for two tenure-track, Assistant Professor faculty positions to start in September 2019.

#### Minimum Qualifications (Required):

- PhD in Computer Science or a closely related discipline

- Applicants must be committed to developing and sustaining externally-funded research programs
- Applicants must demonstrate strong potential to establish and maintain substantial research, teaching, and service, including the ability to publish refereed publications, obtain competitive external grants, and supervise postgraduate students
- Applicants should have demonstrated capability of academic management and leadership
- Successful applicants will develop a strong network of collaborations with established national and/or international researchers, leading to significant impact in computer science and related fields

To learn more and to apply, please visit: <http://explorejobs.uml.edu/lowell/en-us/job/494566/assistant-professor-computer-science-multiple-positions>

*The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX employer. All qualified applicants will receive consideration for employment without regard to race, sex, color, religion, national origin, ancestry, age over 40, protected veteran status, disability, sexual orientation, gender identity/expression, marital status, or other protected class.*

## University of Nebraska at Omaha

### Assistant Professor - Information Systems

The position is within the Department of Information Systems and Quantitative

# Professional Opportunities

Analysis (ISQA) and is open to all research areas. A strong candidate will be a highly qualified teacher and researcher in the complex information environments that characterize today's organizations and societies. Areas of interest include digital transformation, data analytics and engineering, organizational change, health informatics, and social computing. The candidate should possess strong teaching and technical expertise in areas such as information assurance, project management, or systems analysis, design, and development.

Candidates must possess an appropriate doctorate or ABD in Information Systems, or related disciplines including Information Technology, Information Science, Information and Communication Technology for Development, Human Centered Computing, Human Computer Interaction, or Information Management, from a nationally recognized program. The department is seeking strong candidates with research and teaching interests in Information Systems who can demonstrate a combination of technical and managerial breadth. Contributions to service within the university, business and/or professional areas are expected.

To apply, please visit <https://unomaha.peopleadmin.com/postings/6855>. Cover letter, curriculum vita, research and teaching statements and list of references must be attached to the electronic application for full consideration.

The University of Nebraska at Omaha does not discriminate in its academic, employment or administration policies and abides by all federal, state and regental regulations pertaining to same.

For more information, please contact Dr. Matt Germonprez ([mgermonprez@unomaha.edu](mailto:mgermonprez@unomaha.edu)).

## University of New Orleans

### *Assistant Professor*

The Department of Computer Science at the University of New Orleans invites applications for several tenure-track positions at the rank of Assistant Professor to begin in January 2019. We are primarily looking for applicants whose expertise would extend and complement existing strengths within the department. Candidates with expertise in machine learning, big data, environmental informatics, security and privacy, are especially encouraged to apply.

To apply, visit: <http://new.uno.edu/careers/1654>

The University of New Orleans is an Affirmative Action / Equal Employment Opportunity employer. We do not discriminate on the basis of race, gender, color, religion, national origin, disability, protected Veteran status, age if 40 or older, or any other characteristic protected by federal, state, or local law.

## University of Notre Dame

### *Postdoctoral Fellowship in Computational Social Science*

The Department of Computer Science and Engineering at the University of Notre Dame has an open postdoctoral position to study computational social science. The anticipated start date for this position is January 1,

2019 (negotiable). This is an annual renewable appointment for up to two years subject to performance and funding.

The postdoc will join a dynamic and interdisciplinary team that includes computer, physical, and cognitive scientists. The postdoc will work with Dr. Tim Weninger as well as other postdocs and several PhD students on analysis and modeling of social media data. Areas of focus will include empirical and experimental analysis of social media systems, models for the spread of information, and cognitive models of information processing. The ideal candidate will have a PhD in computing, social science, or statistics; a strong background in analysis and modeling of computer mediated social systems; a strong interest in computational social science; and solid programming skills necessary to handle big data and large scale experiments.

Applicants must submit a cover letter and CV to <http://apply.interfolio.com/53414>. To guarantee full consideration, applications must be received by December 1, 2018, however, review of applications will continue until the position has been filled.

## University of Portland

### *Assistant Professor of Computer Science (Tenure Track)*

#### *Job Details*

Title: Assistant Professor of Computer Science (Tenure Track)

Job Category: Faculty

Division: Provost's Office

Department: Shiley School of Engineering



# Professional Opportunities

Opened Date: 07/24/2018  
Classification: Full Time Faculty  
Hours: Full time  
Benefits: Full time faculty

**Short Description:** The Computer Science (CS) Program at the University of Portland (UP) seeks a tenure-track assistant professor of computer science to join the thriving academic community of the Shiley School of Engineering at the University of Portland. This position will start August 2019.

This position will support a new post-baccalaureate degree in computer science where the primary audiences will be liberal arts majors. This position also will allow us to expand course offerings to non-CS majors. All CS faculty members at UP will contribute to the expansion of these areas.

We anticipate conducting the first review of applications on October 1, 2018, and will continue reviewing applications as necessary until the position is filled.

\* Information about the Donald P. Shiley School of Engineering: The Shiley School of Engineering has an enrollment of approximately 650 students across four BS majors: civil, electrical, and mechanical engineering, and computer science, and two masters programs. Visit [www.engineering.up.edu](http://www.engineering.up.edu) for more information about the Shiley School.

## Responsibilities:

UP's typical teaching load is 18 semester credits per year (3 courses each semester). Summer and evening teaching may be required. We will consider

candidates who can and want to teach a combination of lower division (Java, C) and upper division courses. Areas of desired specialty include computer architecture, security, and programming languages; however, all areas will be considered. Faculty are expected to teach some service courses that may include Introduction to Engineering, Introduction to Computing, Engineering Statistics, and Engineering Economics.

In addition to undergraduate teaching, the candidate is expected to advise undergraduate students, supervise senior capstone projects, develop and teach electives and masters-level courses, engage in scholarly activity within the context of a teaching-oriented university, and serve the University and the Shiley School. This is an ideal position for educators who are passionate about teaching and who want to work at a student-centered institution where we strive for a balance of professional education within a liberal arts environment.

## Requirements: Education & Experience

**Required:** Ph.D. in either CS, Computer Engineering, or another area and training and experience with teaching undergraduate CS.

**Required:** Demonstrated dedication to excellence in teaching.

**Application Requirements:** A complete application includes the following: (1) curriculum vitae; (2) letter of interest that specifically addresses why you are interested in the Shiley School

of Engineering and the University of Portland; (3) a statement of teaching philosophy that discusses your philosophy regarding undergraduate and post-baccalaureate education, your philosophy towards scholarship at a masters comprehensive institution, and discussion about your past or proposed contributions to advance diversity, inclusivity, and/or equity in education; and (4) contact information for three references.

We will only review complete applications submitted via [up.hiretouch.com](http://up.hiretouch.com). For full consideration, please apply via [up.hiretouch.com](http://up.hiretouch.com) by October 1, 2018.

**Other Information:** We will consider candidates who need visa sponsorship.

**Required Documents:** Cover Letter, Curriculum Vitae, References, Statement of Teaching Philosophy

Notice of University requirements regarding offers of employment and background investigations: Offers of employment by the University are in writing and signed by the head of the Office of Human Resources and the President, the Provost, or a Vice President. Any offers of employment that do not meet these requirements are not final and are contingent on final approval by Human Resources and receipt of a written offer of employment that meets the previously-stated requirements. A background investigation process is required before final hiring procedures can be completed for all faculty and staff positions. Any offers received before a background investigation is successfully completed are not final and

# Professional Opportunities

are contingent on successful completion of a background investigation.

For those requiring a reasonable accommodation to apply: Applicants who have a disability and would like to request a reasonable accommodation regarding the application or hiring process should contact Human Resources (503) 943-8484.

The University's mission and EEO statement: Founded in 1901, the University of Portland is a private, comprehensive, Catholic university with a mission of teaching and learning, faith and formation, service and leadership. The University of Portland is an equal opportunity employer fully dedicated to achieving a diverse faculty and staff. The University of Portland does not discriminate in its educational programs, admissions policies, scholarship and loan programs, athletic and other school-administered programs, or employment on the basis of race, color, national or ethnic origin, sex, disability, age, sexual orientation, or any other basis protected by and consistent with the law. Please see the University's full Equal Opportunity and Nondiscrimination Policy here: <https://www1.up.edu/disclosures/nondiscrimination-policy.html>.

## University of Southern California, Information Sciences Institute

*Multiple Computer Scientist/Research Positions*

The *Information Sciences Institute* (ISI) at the *University of Southern California* (USC) is a world leader in the

research and development of advanced information processing, computing and communications technologies. ISI played a pivotal role in the information revolution, developing and managing the early internet and its predecessor, ARPAnet. Today, its research spans artificial intelligence, cybersecurity, grid computing, quantum computing, microelectronics, supercomputing, nanosatellites and many other areas.

ISI has three research campuses: in Marina Del Rey, CA; in Arlington, VA; and in Waltham, MA.

### Arlington, Virginia

Computer Scientist – *EDA Algorithm Researcher*

Computer Scientist – *Reconfigurable Abstraction Researcher*

Postdoctoral Scholar Research Associate – *Reconfigurable Computing*

Research Programmer II – *Vision/AI*

Computer Scientist – *Machine Learning and Computer Vision*

Computer Scientist – *HPC*

Computer Scientist – *Virtualization*

Computer Scientist – *Real Time*

### Waltham, Massachusetts

Research Programmer II – *Natural Language Processing*

Research Programmer I – *Natural Language Processing*

Computer Scientist – *Natural Language Processing*

### Marina del Rey, California

Postdoctoral Scholar Research Associate – *Cybersecurity and AI*

## University of Texas at San Antonio

### Faculty Position in Computer Science

The Department of Computer Science at The University of Texas at San Antonio (UTSA) invites applications for one tenure-track or tenured open rank (Assistant, Associate or Full Professor) position, starting in Fall 2019. This position is targeted towards faculty with expertise and interest in artificial intelligence (AI). Outstanding candidates from all areas of AI will be considered, and preference will be given to applicants with expertise in cyber adversarial learning, AI for resource-constrained systems (such as IoTs and embedded systems), or AI (such as natural language processing, computer vision and deep learning) as it relates to health-related applications. This position is part of the university-wide cluster hiring in Artificial Intelligence.

See <http://www.cs.utsa.edu/fsearch> for information on the Department and application instructions. Screening of applications will begin immediately.

Application received by **January 2, 2019** will be given full consideration. The search will continue until the positions are filled or the search is closed.

The University of Texas at San Antonio is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

**Department of Computer Science  
RE: Faculty Search**

**The University of Texas at San Antonio**  
**One UTSA Circle**  
**San Antonio, TX 78249-0667**  
**Phone: 210-458-4436**

## University of Wisconsin- Department of Mechanical Engineering

### *Professor*

#### **Position Summary:**

The Department of Mechanical Engineering at UW- Madison seeks candidates in the broad areas of applied control, multibody dynamics, computational modeling, and machine learning.

Candidates who transcend the traditional boundaries of Mechanical Engineering and possess a demonstrated potential for bringing into the research effort insights from Electrical Engineering and/or Computer Science and/or Applied Math in order to address high impact societal problems related to areas 1 and 2 above are especially encouraged to apply.

#### **Requirements:**

PhD in Mechanical Engineering or a closely related field, and demonstrated excellence in research and teaching.

#### **Principal duties:**

Teaching and developing undergraduate and graduate courses; mentoring graduate students and supervising their research; developing and directing a strong, extramurally funded research program; participating in departmental and university faculty governance; and contributing to

professional and public service.

Please see full position description, requirements, and application instructions in the official position vacancy listing: <http://jobs.hr.wisc.edu/cw/en-us/job/498854/professor>

## Vassar College

### *Assistant Professor of Computer Science*

The Department of Computer Science at Vassar College invites applications for a tenure-track position at the rank of Assistant Professor starting in the 2019-20 academic year.

**Vassar College is an affirmative action and equal opportunity employer with a strong commitment to increasing the diversity of the campus community and the curriculum and promoting an environment of equality, inclusion and respect for difference. Candidates who can contribute to that goal are encouraged to identify their strengths and experiences in this area. Applicants who have demonstrated commitment to diversity and inclusion are particularly encouraged to apply.**

The successful candidate will be expected to teach both intro level courses, as well as upper level courses in their area of specialty. A commitment to excellence in undergraduate teaching and research is expected. A PhD in Computer Science or related field is required by the start of the fall semester. Applicants in all areas

of Computer Science are encouraged to apply; candidates in areas of research that complement existing faculty will be given special consideration. A typical teaching load is one lab course and one non-lab course each semester.

Vassar is a highly selective, coeducational liberal arts college of about 2450 undergraduates (no graduate students) located in the beautiful and historic Hudson Valley, 75 miles north of New York City. The city of Poughkeepsie benefits from rich cultural diversity and from convenient commuter-rail access to New York City.

Vassar faculty members are committed teacher/scholars who bring research and creative discovery to life for students in classrooms, labs, and studios and in individually mentored projects. They teach broadly in the curricula of their departments, advise students, and serve on college-wide and departmental committees. The College maintains a generous leave policy, provides strong support for research, and encourages multidisciplinary approaches to teaching.

Vassar College has built a strong undergraduate program in Computer Science. Introductory courses are taught using Scheme and Java. The department maintains Linux laboratories for introductory and advanced instruction. Faculty members are provided with workstations and laptops. For more information see <https://computerscience.vassar.edu/>.

# Professional Opportunities

To apply, please visit <https://employment.vassar.edu/applicants/Central?quickFind=52586>

to link to the posting for this position. Candidates should submit a letter of application, C.V., diversity statement, graduate school transcript (unofficial copies accepted for initial application), at least three letters of recommendation (at least one of which directly addresses teaching), a statement of teaching experience and philosophy, and research statement. For inquiries, email Marc Smith, Chair, Computer Science Department, Vassar College, [mlsmith@vassar.edu](mailto:mlsmith@vassar.edu).

Review of applications will begin on October 15th and continue until the position is filled.