

Assistant Professor
University of Hawaii at Manoa

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Posted Jul. 8, 2019, set to expire Nov. 6, 2019

Job Title Assistant Professor
Department Department of Electrical Engineering (EE)
<http://ee.hawaii.edu>
Institution University of Hawaii at Manoa
Honolulu, Hawaii

Date Posted Jul. 8, 2019

Application Open until filled
Deadline
Position expected 8/1/2020
Start Date

Job Assistant Professor
Categories

Academic Computer/Information Sciences
Field(s)

Job Website <http://ee.hawaii.edu/content.php?pag=16>

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Job
Description

Department of Electrical Engineering (EE) invites applications for a full-time, 9-month, general funds, tenure-track faculty position, pending position clearance and availability of funds. To begin approximately August 1, 2020 or as soon as possible thereafter.

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The University of Hawai'i at Manoa is a Carnegie R1 Doctoral University (Highest Research Activity) with a strong emphasis on research and graduate education. The Department offers the B.S., M.S., and Ph.D. degrees in electrical engineering and the B.S. degree in computer engineering. The B.S. degree programs in electrical engineering and computer engineering are ABET accredited. Current enrollment is approximately 350 undergraduate and 50 graduate students with 20 faculty members.

The State of Hawai'i has a strong commitment to improving high technology within the state through legislative efforts, tax incentives, and initiatives such as the HI Growth Initiative supported by Governor David Ige. The UHM EE Department has identified key research areas to support this technology-rich environment focused on (but not limited to): data analytics, cyber security, nano/biotechnology, renewable energy, etc.

Current initiatives in which the successful candidate may engage include:

- NSF CyberCorps Scholarship for Service Program - a \$5 million scholarship award for supporting cyber-security research and workforce development,
- DHS/NSA Center of Academic Excellence in Cyber Defense Research (CAE-R) - a venue for participating many national cyber security research and educational programs, including DHS, NSA, NIST, DOD, etc.
- NSF Center for Science of Information - a \$25 million NSF Science and Technology center whose agenda includes statistics, information theoretical and big data techniques with a focus on understanding information in biological/physical/social/engineered systems,
- NSF-EPSCOR Ika Wai - a multidisciplinary \$20 million NSF project to understand fresh water within the island system including development of bio/nano sensors,
- LAVA - an NSF MRI supported state-of-the-art visualization space looking at integrating computer vision in novel augmented reality environments for storytelling and data visualization,
- Renewable Energy and Island Sustainability - a campus-wide collaboration to improve food/water/energy sustainability, and
- UH FabLab - a College of Engineering Makerspace housing tools for rapid prototyping.

Focus Areas of Research

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Security and Privacy of Computer Systems and Applications, and related areas: Cyber security is among the top strategical directions of the UH System. Both theoretical and applied research are of interest, and successful candidates must be able to leverage their research to collaborate with other faculty on campus, as well as to develop an independent, competitively funded research program. We

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are particularly interested in research that is interdisciplinary and can also leverage the existing areas of strength at UHM: computer network security, privacy, CPS/IoT, wireless security, and data science.

Cyber security is critical to our nation's safety and economy. The UHM EE Department is part of several NSF centers and other initiatives as mentioned above and successful candidates can expect high visibility for their research as well as funding support through these agencies.

Other areas: Candidates with strong research records in other areas are encouraged to apply as well, such as in computer and information systems, and other computer engineering related areas.

Duties and Responsibilities

Teaching assigned undergraduate and graduate-level courses, including via distance delivery modes; developing an extramurally funded research program; conducting and publishing research work in leading scholarly journals as a record of scholarly activity; serving as chair or member of committees in charge of candidates for advanced degrees; participating in curriculum development activities including the development of curricular materials and special instructional methods; supervising independent study activities; serving as academic advisor to students; serving on departmental, college, and university committees; rendering service to the professional or lay community which is relevant to the individual's academic specialty, and; performing related tasks as assigned.

Minimum qualifications

An earned Ph.D. (ABD will be considered; degree must be earned before date of hire) in Electrical or Computer Engineering, Computer Science, or a closely related discipline from a university of recognized standing by the start date of the position; demonstrated ability as a teacher; demonstrated scholarly achievement, evidenced by a track record of publications; and excellent communication skills for meeting and conferring with others.

Desirable qualifications

Strong research record in cyber security, privacy, and related areas. Ideal candidates in the primary search area should be able to leverage the existing areas of strength at UHM: computer network security, privacy, CPS/IoT, wireless security, and data science. We are also interested in applicants in computer systems, information systems, and other computer engineering related areas. Quality of research thus far is an important consideration, as is potential for establishing an extramurally funded research program. Exceptional candidates in other areas of electrical and computer engineering are encouraged to apply as well.

Pay range:

Commensurate with qualifications and experience.

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Inquiries:

Prof. Yingfei Dong, Department of Electrical Engineering, email: yingfei@hawaii.edu

Continuous recruitment:

Review of applications will begin Sept 15, 2019, and will continue UNTIL the position is filled.

EEO/AA Policy

The University of Hawaii is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination on the basis of race, sex, gender identity and expression, age, religion, color, national origin, ancestry, citizenship, disability, genetic information, marital status, breastfeeding, income assignment for child support, arrest and court record (except as permissible under State law), sexual orientation, national guard absence, or status as a covered veteran.

Individuals with disabilities who need a reasonable accommodation for the application or hiring process are encouraged to contact the EEO/AA coordinator(s) for the respective campus.

Employment is contingent on satisfying employment eligibility verification requirements of the Immigration Reform and Control Act of 1986; reference checks of previous employers; and for certain positions, criminal history record checks.

In accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, annual campus crime statistics for the University of Hawaii may be viewed at: <http://ope.ed.gov/security/>, or a paper copy may be obtained upon request from the respective UH Campus Security or Administrative Services Office.

Contact Information

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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Prof. Yingfei Dong
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