

Assistant Professor (Quantum Computing)  
University of Hawai'i at Manoa (UHM)

Direct Link: <https://www.AcademicKeys.com/r?job=247221>

Downloaded On: Oct. 19, 2024 1:21pm

Posted Oct. 17, 2024, set to expire Feb. 15, 2025

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|-----------------------------|--|
| <b>Job Title</b>            | Assistant Professor (Quantum Computing)  |
| <b>Department</b>           | Department of Electrical and Computer Engineering<br><a href="https://ee.hawaii.edu/home/">https://ee.hawaii.edu/home/</a> |
| <b>Institution</b>          | University of Hawai'i at Manoa (UHM)<br>Honolulu, Hawaii   |
| <b>Date Posted</b>          | Oct. 17, 2024  |
| <b>Application Deadline</b> | Continuous – application review begins January 2, 2025   |
| <b>Position Start Date</b>  | Aug. 1, 2025   |
| <b>Job Categories</b>       | Assistant Professor  |
| <b>Academic Field(s)</b>    | Electrical and/or Electronics<br>Computer Engineering  |
| <b>Apply Online Here</b>    | <a href="http://tinyurl.com/QuantumComputingAcademicKeys">http://tinyurl.com/QuantumComputingAcademicKeys</a>              |

**Apply By Email**

**Job Description**

**Title:** Assistant Professor (Quantum Computing)

**Position Number:** \*\*Pending Position Number

**Hiring Unit:** College of Engineering – Electrical and Computer Engineering

**Location:** UH Manoa

**Date Posted:** October 15, 2024

**Closing Date:** Continuous – application review begins January 2, 2025

**Salary Information:** Commensurate with qualifications and experience.

**Monthly Type:** 9 Month

**Tenure Track:** Tenure

**Full Time/Part Time**

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: Full Time

**Temporary/Permanent:** Permanent

**Funding:** General Funds

**Other conditions:** Pending position clearance

The University of Hawai'i at Manoa (UHM) Department of Electrical and Computer Engineering (ECE) invites applications for a full-time, general-funded, tenure-track faculty position at the Assistant Professor level, pending position clearance and availability of funds, to begin on August 1, 2025. Review of applications will begin on January 2, 2025 and continue until the position is filled.

Candidates should have a strong research record in fields applicable to theoretical or experimental quantum science and technology, including but not limited to computing, algorithms, networks, communication, information theory, detection, and sensing. Exceptional candidates in other areas of electrical and computer engineering are encouraged to apply as well.

UHM is a Carnegie R1 Doctoral University (Highest Research Activity) and is recognized as a Land Grant, Sea Grant, Space Grant, and Sun Grant university. Successful candidates would have opportunities to collaborate by means of a diverse range of initiatives in the Department and the University such as an NSF Research and Traineeship Award to re-envision graduate education, an NSF CyberCorps Scholarship for Service Program (SFS); the NSA/DHS National Center of Academic Excellence in Cyber Defense Research (CAE-R); the NSF AI Research Institute (focusing on dynamic systems); the NSF Center for Science of Information (focusing on big data, information theory, and machine learning), and the campus-wide Materials Science Research initiative.

The UHM ECE Department offers the B.S. degree in electrical engineering, B.S. degree in computer engineering, and the M.S. and Ph.D. degrees in electrical and computer engineering. Both B.S. degree programs in electrical engineering and computer engineering are ABET accredited. Current enrollment is approximately 300 undergraduate and 60 graduate students with 26 faculty members. The Department is actively and purposely committed to building a culturally diverse community of faculty, staff, and students. We welcome candidates from groups that are historically underrepresented in our field and/or who have demonstrated initiative toward building an equitable and inclusive scholarly environment. Candidates who have had non-traditional career paths or who have achieved excellence in careers outside academia are also encouraged to apply.

UHM is dedicated to becoming a Native Hawaiian Place of Learning, a place that is responsive to Native Hawaiians and reflective of Indigenous Hawai'i where all can learn, grow, connect, and heal from. UHM is also a designated Truth, Racial Healing, and Transformation Campus Center.

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UHM is actively engaged in building a culturally diverse, equitable, and inclusive educational environment with a strong emphasis on research and graduate education. UHM delivers a unique multicultural global experience with a long history of adherence to the principles of sustainability and the essence of aloha — truly like nowhere else on earth.

For more information about this position, refer to <https://ee.hawaii.edu/resources/page/Faculty-Recruiting>

### **Duties and Responsibilities**

1. To teach assigned undergraduate and graduate courses, including via various distance delivery modes as required;
2. To develop extramurally funded research programs that result in publications in leading scholarly journals;
3. To present research work at leading scholarly conferences;
4. To serve as chair or member of committees in charge of student candidates for advanced degrees;
5. To participate in curriculum development activities including the development of curricular materials and special instructional methods;
6. To supervise independent study activities;
7. To serve as academic advisor to students;
8. To serve on Department, College, and University committees;
9. To render service to the professional or lay community that is relevant to the individual's academic specialty;
10. Support the recruitment, retention, and graduation of Native Hawaiian, Pacific Islanders, and other underrepresented populations in Engineering;
11. Participate in initiatives toward the creation of place-based/Hawai'i-based curriculum to impact electrical and computer engineering knowledge;
12. Participate in implementing the Native Hawaiian principles from the UHM Strategic Plan;
13. To perform related tasks as assigned.

### **Minimum Qualifications**

1. An earned Ph.D. (All-But-Dissertation, ABD, applicants will be considered; degree must be earned before the date of hire) in Electrical or Computer Engineering or a closely related discipline from a university of recognized standing by the start date of the position;
2. Demonstrated strong commitment to teaching excellence and mentoring at the undergraduate

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and graduate levels and the ability to teach students from different backgrounds with diverse life experiences and learning styles.

3. Demonstrated scholarly achievement, evidenced by a track record of conducting research and publishing scholarly materials;
4. Potential to develop externally funded research programs and research collaborations;
5. Effective communication skills for meeting and conferring with diverse colleagues, students, and community members; and
6. Ability to engage successfully in a multicultural and multiethnic environment.

### **Desirable Qualifications**

1. Strong record of research in quantum science;
2. Demonstrated experience in obtaining extramural funding from the federal government or industry;
3. Demonstrated ability in establishing interdepartmental, interdisciplinary, and cross-disciplinary activities in teaching and research;
4. Demonstrated excellence in teaching and mentoring at the undergraduate and graduate levels;
5. Demonstrated commitment to promoting diversity, equity, and inclusion in the workplace;
6. Research focus applicable to or experience with Hawai'i and/or the Asia/Pacific region.
7. Ability to recruit, retain, and graduate Native Hawaiian, Pacific Islander, and/or other underrepresented populations in Engineering;
8. Willingness toward the creation of place-based and/or Hawai'i based curriculum, and to learn about and implement Native Hawaiian, Indigenous, and/or place-based principles into curriculum, programming, and work culture.

### **To Apply**

Only electronic applications are accepted via NEOGOV. All complete applications received prior to January 2, 2025 will receive full consideration; those received after the review date will only be considered if the position has not yet been filled. Click on the "Apply" button on the top right corner of the NEOGOV screen to complete an application and attach required documents. The applicants must submit: (1) a cover letter specifying the position and the research area; (2) a curriculum vitae detailing research and teaching accomplishments; (3) a statement on research interests, activities, and plans; (4) a statement on teaching philosophy, interests, and plans; (5) a statement of contributions to diversity, equity, and inclusion; (6) copies of up to 5 relevant publications; (7) graduate transcripts (unofficial copies accepted; however, official transcripts will be required upon hire); and (8) the names, addresses, e-mail, and telephone numbers of at least 4 professional references (references for short-

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listed applicants will be asked to provide letters of recommendation).

NOTE: If you have not applied for a position before using NEOGOV, you will need to create an account. The maximum file size to upload/attach is 10MB. If the attachment is larger than 10MB, please split the file and upload it as a supplemental attachment.

### Inquiries

Prof. Victor Lubecke, Search Committee Co-Chair, 808-956-4942, [lubecke@hawaii.edu](mailto:lubecke@hawaii.edu)

Prof. June Zhang, Search Committee Co-Chair, 808-956-5633, [june.zhang@hawaii.edu](mailto:june.zhang@hawaii.edu)

### EEO/AA Policy

The University of Hawai'i 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, domestic or sexual violence victim status, national guard absence, or status as a covered veteran. For more information or inquiries regarding these policies, please refer to the following link:

<http://www.hawaii.edu/offices/eo/eo-coordinators/>

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 Hawai'i may be viewed at: <https://www.hawaii.edu/titleix/help/campus-security/>, or a paper copy may be obtained upon request from the respective UH Campus Security or Administrative Services Office.

Accommodation Request: The University of Hawai'i complies with the provisions of the Americans with Disabilities Act (ADA). Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the EEO coordinator directly.

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Determination on requests for reasonable accommodation will be made on a case-by-case basis. For further information, please refer to the following link:

<https://www.hawaii.edu/offices/eo/accommodation-request/>

### Contact Information

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

**Contact** Victor Lubecke  
Department of Electrical and Computer Engineering  
University of Hawai'i at Mānoa (UHM)  
2540 Dole Street  
Holmes Hall Rm 483  
Honolulu, HI 96822

**Contact E-mail** lubecke@hawaii.edu