

Assistant Professor or Associate Professor, Department of
Electrical and Computer Engineering
University of Central Florida

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Posted Nov. 21, 2023, set to expire May 22, 2024

Job Title	Assistant Professor or Associate Professor, Department of Electrical and Computer Engineering
Department	Department of Electrical and Computer Engineering
Institution	University of Central Florida Orlando, Florida
Date Posted	Nov. 21, 2023
Application Deadline	Open until filled
Position Start Date	Aug. 8, 2024
Job Categories	Assistant Professor Associate Professor
Academic Field(s)	Engineering Physics Electrical and/or Electronics Computer Engineering
Apply Online Here	https://ucf.wd1.myworkdayjobs.com/en-US/careers/job/Orlando-FL-Main-Campus/Assistant-Professor-or-Associate-Professor--Department-of-Electrical-and-Computer-Engineering_R106673?q=R106673

Apply By Email

Job Description

Unleash Your Potential With Us

As a next-generation public research institution, we are an inclusive community of thinkers, doers, creators, innovators, healers, and leaders striving to shape the future and solve the world's most

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challenging problems. No matter what your role is, when you join Knight Nation, you become an integral part of our mission to become a university for the future. You'll be met with opportunities to connect and collaborate with uniquely talented faculty, staff, and students across 13 colleges and multiple campuses and regional locations. That means greater challenges to tackle, more meaningful opportunities to grow, and rewarding experiences that go beyond a paycheck.

The Opportunity

The Department of Electrical and Computer Engineering (ECE) at the University of Central Florida (UCF) invites applicants for two full-time, 9-month, faculty positions at the rank of assistant professor (tenure-earning) or associate professor (tenured). The positions will work in the areas of either:

(1) Next Generation High Performance Computing Systems

This faculty position would be a member of the Computer Engineering program in ECE. The research topics of interest include, but are not limited to, quantum computing, biologically inspired computing, optical computing, neuromorphic computing, and trusted computing. Desired skill set within the context of research areas of interest includes working familiarity with quantum computing architectures, quantum design automation, physical design, optimization and layout/tapeout, prototyping, fabrication processes, and tools for digital logic or quantum processing architectures. Complementary skills to UCF's existing research programs are highly sought after.

(2) Quantum and Superconducting Devices and Circuits

This faculty position will be a joint member of the Electrical Engineering program in the College of Engineering and Computer Science (CECS), and the Physics program in the College of Sciences, with a tenure home in ECE. The research topics of interest include quantum heterostructures, spin-based electronics, Josephson junction quantum devices and circuits, superconducting circuits, and quantum sensors. Desired skill set within the confines of the research topics of interest includes working familiarity with materials growth, fabrication, design, and measurement of superconducting qubits, as well as the development of cryogenic packaging and control electronics, design and development of interfacing conventional electronics for quantum systems, and quantum information processing.

The successful candidates are expected to lead multidisciplinary collaborative research efforts to address the challenges of ensuring a leading position for the United States in the race to invent and manufacture the future computing technologies that surpass the limits of the conventional semiconductor technologies and to meaningfully contribute to the educational workforce development efforts that train the next generation of engineers who lead the charts in the semiconductor industry.

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Minimum Qualifications:

Doctoral degree from an accredited institution in electrical engineering, computer engineering, physics, or other closely related disciplines at the time of appointment. Applicants must have a strong research track record supported by quality publications.

To be eligible for appointment as a tenured associate professor upon hire, the selected candidate must have a demonstrated record of teaching, research, and service commensurate with a tenured faculty appointment at the rank of associate professor.

Preferred Qualifications:

Demonstrated experimental research experience and record of high-impact publications in the areas of interest.

Additional Application Materials Required:

UCF requires all applications and supporting documents be submitted electronically through the Human Resources employment opportunities website, <https://www.ucf.edu/jobs/>.? In addition to the online application, candidates should upload a cover letter, a current curriculum vitae, and a list with contact information for three (3) professional references.

NOTE: Please have all documents ready when applying so they can be simultaneously uploaded. Once the online submission process is finalized, the system does not allow applicants to submit additional documents later.

The selected candidate will be required to submit official transcripts (and, as applicable, U.S. degree equivalency evaluations) documenting the conferral of their qualifying academic credentials.

Questions regarding this search should be directed to: Ronald DeMara, Professor, at ronald.demara@ucf.edu.

Special Instructions to the Applicants:

N/A

Job Close Date:

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Open until filled.

Note to applicants: Please keep in mind that a job posted as '*Open until filled*' may close at any time without notice. As such, we encourage you to submit your application and all required documentation as quickly as possible to ensure consideration for the posted position.

Are Benefits Important to You?

Working at UCF has its perks!? In addition to helping drive change and having a positive impact by supporting our students, staff, and faculty, UCF offers:

- Benefit packages including medical, dental, vision, life insurance, healthcare flexible spending accounts, and an Employee Assistance Program.
- Paid time off, including annual leave (12-month faculty) and sick leave and paid holidays.
- Retirement savings options.
- Employee discounts, including tickets to many Orlando area attractions.
- Education assistance.
- Flexible work environment.

And more...For more benefits information, go to 'Prospective Employees' on the UCF Human Resources website (<https://hr.ucf.edu/>).

Who Are We?

Founded in 1963 to fuel the region's talent pipeline and support the growing U.S. space program, UCF is built to make a better future for our students and society. It's one of the reasons *U.S. News & World Report* ranks UCF among the nation's top 20 most innovative colleges, while *Forbes*, *Kiplinger*, and *The Princeton Review* rank us a best-value university. UCF is one of 14 universities nationwide designated as both a Hispanic-Serving Institution and a Research 1 university. With 13 colleges, including a fully accredited College of Medicine, UCF offers more than 240 degree programs between its main campus, downtown campus, hospitality campus, academic health sciences campus, and 11 UCF Connect centers located throughout the region. In addition, UCF extends its reach to communities in and beyond Central Florida by offering complete, online programs leading to bachelor's degrees, master's degrees, Ph.D.'s., certificates, and more.

The University of Central Florida is proud to be a smoke-free campus and an E-Verify employer. Unless explicitly stated on the job posting, it is UCF's expectation that an employee of UCF will reside in Florida as of the date the employment begins.

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Additional Requirements related to Research Positions

Pursuant to Florida State Statute 1010.35, prior to offering employment to certain individuals in research-related positions, UCF is required to conduct additional screening. Applicants subject to additional screening include any citizen of a foreign country who is not a permanent resident of the U.S., or who is a citizen or permanent resident but is affiliated with or has had at least 1 year of higher education, employment, or training in China, Cuba, Iran, Russia, North Korea, Syria, or Venezuela.

The additional screening requirements only apply to employment in research-related positions, including, but not limited to faculty positions (including employed visiting positions), graduate positions, individuals compensated by research grants or contract funds, postdoctoral scholar positions, and undergraduate positions.

Department

College of Engineering and Computer Science (CECS) - Electrical and Computer Engineering

Work Schedule

Varies

Type of Appointment

Regular

Expected Salary

Negotiable

Equal Employment Opportunity Statement:

The University of Central Florida is an Equal Opportunity/Affirmative Action Employer including Disabled/Vets. Click on [UCF's Equal Opportunity Statement](#) to view the President's Statement.

The UCF affirmative action plans for qualified individuals with disabilities and protected Veterans are available for inspection in the Office of Institutional Equity, Monday through Friday, from 9:00 a.m. to 5:00 p.m., upon request.

As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

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EEO/AA Policy

UCF is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

Contact Information

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

Contact Ronald DeMara
Department of Electrical and Computer Engineering
University of Central Florida
Orlando, FL 32816

Contact E-mail ronald.demara@ucf.edu