

Assistant Professor, Civil and Environmental Engineering
University of Central Florida

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Posted Dec. 4, 2024, set to expire Jun. 5, 2025

Job Title	Assistant Professor, Civil and Environmental Engineering
Department	Department of Civil, Environmental, and Construction Engineering
Institution	University of Central Florida Orlando, Florida
Date Posted	Dec. 4, 2024
Application Deadline	Open until filled
Position Start Date	Aug. 8, 2025
Job Categories	Assistant Professor
Academic Field(s)	Water Resources Engineering Ecological and Environmental Civil Engineering
Apply Online Here	https://jobs.ucf.edu/jobs/assistant-professor-civil-and-environmental-engineering-orlando-florida-united-states
Apply By Email	
Job Description	

The Opportunity

The Department of Civil, Environmental, and Construction Engineering (CECE) at the University of Central Florida (UCF) in Orlando, Florida, invites applicants for multiple full-time, 9-month, tenure-earning assistant professor positions with an anticipated start date of August 8, 2025. CECE is looking for candidates that would strengthen the department's research and teaching portfolio across the

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subdisciplines in Civil and Environmental Engineering. Some focus areas of research interest to the department are listed below. The successful candidates may work within or at the interface of these focus areas, or in other applied research areas with funding potential. Candidates with primarily experimental, field, analytical, or computational strengths will all be considered.

The focus areas are:

1. Smart buildings, multi-scale modeling for extreme events, hybrid simulation and substructure simulation beyond seismic, offshore and on-shore wind and wave energy structures.
2. Concrete or geomaterials for sustainable infrastructure, soil-foundation-structure interaction under flooding, erosion conditions, or subjected to geoenvironmental hazards.
3. Infrastructure component and systems design, monitoring, maintenance and life cycle-management considering climate change, emergency management and community resilience under extreme events.
4. Environmental engineering systems to include water and wastewater infrastructure, physical-chemical processes such as advanced water and wastewater treatment processes (such as but not limited to oxidation, adsorption, aeration, membrane filtration and desalination), corrosion, residuals management, and waste to energy systems.
5. Coastal and water resources engineering, surface and subsurface hydrology/hydraulics in urban/coastal areas, hydroinformatics, decision making under deep uncertainty in the water/coastal sector, water policy.
6. Decision making frameworks and systems engineering for smart and resilient community/city operations based on sensor fusion, disaster metrology, physics-based models, machine learning, and user data.
7. Electric vehicle charging infrastructure, network optimization, emerging mobility systems (including TNC and micromobility), smart city applications related to transportation and infrastructure (e.g., connected/autonomous vehicle applications).

Faculty hired for these positions are expected to develop strong nationally and internationally recognized research activities aligned with the vision of the department, develop new and participate in existing multidisciplinary activities and projects, train postdoctoral scholars, serve as primary advisor for graduate students, and teach graduate and undergraduate courses in Civil or Environmental Engineering. Salary and start-up package will be commensurate with the candidate's qualifications.

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Minimum Qualifications:

- A Ph.D. from an accredited institution in Civil Engineering, Environmental Engineering, or a closely related area at the time of the appointment.
- Demonstrated record of research and scholarly output.
- Evidence of the ability to develop a sustainable externally-funded research program and national/international recognition.

Preferred Qualifications:

- Exceptional record of scholarly research and highly recognized for their technical contributions and leadership in their areas of expertise.
- Demonstrated teaching skills, and ability to effectively communicate with and mentor students and/or post-doctoral scholars.
- Existing research relationships with local, state, or federal government agencies and municipalities or other stakeholders.
- Professional engineering license or other credential relevant to the agencies and stakeholders in previous bullet, or ability to obtain them.
- Experience in post-doctoral research, government lab, industry or as assistant professor.

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, a maximum two-page research statement summarizing past research accomplishments and detailed research plan, a teaching vision and interest statement, and a list with contact information (phone number, and email address) 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.

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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.

Review of applications will start on January 6, 2025, but applications will be considered on a rolling basis until all positions are filled.

Questions regarding this search should be directed to CECESearch@ucf.edu.

Special Instructions to the Applicants:

N/A

Job Close Date:

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 you ready to unleash YOUR potential?

As a next-generation public research university and Forbes-ranked top employer in Florida, we are a community of thinkers, doers, creators, innovators, healers, and leaders striving to create broader prosperity and help shape a better future. No matter what your role is, when you join Knight Nation, you'll play an integral role at one of the most impactful universities in the country. You'll be met with opportunities to connect and collaborate with talented faculty, staff, and students across 13 colleges and multiple campuses, engaging in impactful work that makes a positive difference. Your time at UCF will provide you with many meaningful opportunities to grow, you'll work alongside talented colleagues on complex projects that will challenge you and help you gain new skills and you'll have countless rewarding experiences that go well beyond a paycheck.

Working at UCF has its perks! UCF offers:

- Benefit packages, including Medical, Dental, Vision, Life Insurance, Flexible Spending, and Employee Assistance Program.?
- Paid time off, including annual (12-month faculty) and sick time off and paid holidays.
- Retirement savings options.?
- Employee discounts, including tickets to many Orlando attractions.?

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- Education assistance.
- Flexible work environment.?
- And more...For more benefits information, view the UCF Employee Benefits Guide [click here](#).

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.

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 education, employment, or training in China, Cuba, Iran, Russia, North Korea, Syria, or Venezuela.

The additional screening requirements only apply to research-related positions, including, but not limited to faculty, graduate positions, individuals compensated by research grants or contract funds, post-doctoral positions, undergraduate positions, visiting assistant professors, and visiting research associates.

Department

College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering - Operations

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



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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.

The University of Central Florida is proud to be a smoke-free campus and an E-Verify employer.

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

Department of Civil, Environmental, and Construction
Engineering

University of Central Florida

12800 Pegasus Dr., Suite 211

Orlando, FL 32816

Contact E-mail CECESearch@ucf.edu.