

Tenure-track Faculty - Artificial Intelligence, Robotics and  
Automation in Civil and Environmental Systems  
Construction  
Florida International University

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Posted Apr. 11, 2019, set to expire Aug. 11, 2019

**Job Title** Tenure-track Faculty - Artificial Intelligence, Robotics  
and Automation in Civil and Environmental Systems  
Construction

**Department** Department of Civil and Environmental Engineering

**Institution** Florida International University  
Miami, Florida

**Date Posted** Apr. 11, 2019

**Application Deadline** Open until filled

**Position Start Date** Available immediately

**Job Categories** Assistant Professor  
Associate Professor  
Professor

**Academic Field(s)** Civil Engineering

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**Job Description**

Florida International University is classified by Carnegie as a “R1: Doctoral Universities - Highest Research Activity” and recognized as a Carnegie Community Engaged university. It is a public research university with colleges and schools that offers bachelor’s, master’s and doctoral programs in fields such as business, engineering, computer science, international relations, architecture, law and medicine. As one of South Florida’s anchor institutions, FIU contributes almost \$9 billion each year to the local economy and is ranked second in Florida in Forbes Magazine’s “America’s Best Employers” list. FIU graduates are consistently among the highest paid college graduates in Florida and are among the leaders of public and private organizations throughout South Florida. FIU is Worlds Ahead in finding solutions to the most challenging problems of our time. FIU emphasizes research as a major component of its mission with multiple state-of-the-art research facilities including the Wall of Wind

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Research and Testing Facility, FIU's Medina Aquarius Program and the Advanced Materials Engineering Research Institute. FIU has awarded more than 220,000 degrees and enrolls more than 54,000 students in two campuses and centers including FIU Downtown on Brickell, FIU@I-75, the Miami Beach Urban Studios, and Tianjin, China. FIU also supports artistic and cultural engagement through its three museums: Patricia & Phillip Frost Art Museum, the Wolfsonian-FIU, and the Jewish Museum of Florida-FIU. FIU is a member of Conference USA and more than 400 student-athletes participating in 18 sports. For more information about FIU, visit <http://www.fiu.edu/>.

The Department of Civil and Environmental Engineering (CEE) at Florida International University (FIU) invites applicants for an open-rank, tenure-track faculty position in the field of Artificial Intelligence, Robotics and Automation in Civil and Environmental Systems Construction.

The successful candidate will exhibit the ability to articulate a coherent agenda of research and scholarship and to identify potential funding sources to support such research. We particularly seek individuals pursuing innovative, world-class, quantitative research contributions with engineering solutions that enhance community resilience and significantly impact the planning, design, operations, and control of civil and environmental engineering systems. The successful candidate is expected to foster innovations in construction automation using robotics and machine learning to enhance resilience and sustainability of the built environment and improve infrastructure performance under natural and human-induced stressors, both in the short-terms and long-terms. Pursuing research in the area of adaption under changing climate using construction automation is also highly desirable. A demonstrated potential or record of teaching and mentoring students in resilient, smart and recoverable infrastructure and in courses that complement the CEE undergraduate and graduate curricula, including the development of new enriching courses is expected.

Applicants should have fundamental knowledge in one or more of the following areas -- robotics, machine learning, automation, remote sensing, Internet of Things (IoT), sensors, intelligent control, data analytics, and computer vision -- as applicable to civil and environmental engineering. They are also expected to contribute transformative knowledge in human-machine interaction and autonomous systems to minimize human errors, enhance safety, and increase efficiency and productivity, while achieving precision and economy in construction processes.

Applicants should preferably have B.S. and Ph.D. degrees in Civil Engineering or a closely related discipline. Candidates must have completed their Ph.D. at the time of employment. Evidence of research/scholarship is required. Industrial experience is a plus. Registration as a Professional Engineer in Florida (or the ability to obtain such licensure within four years of employment) is preferred. Responsibilities will include teaching at both the undergraduate and graduate levels in the civil engineering curriculum, directing graduate students, and establishing an externally funded research

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program in the area.

Qualified applicants are encouraged to apply to Job Opening ID 517611 at [facultycareers.fiu.edu](http://facultycareers.fiu.edu) and attach a single pdf file that includes cover letter, curriculum vitae, statements of research interests and teaching philosophy, copies of a maximum of 3 representative research publications, and contact information for 3 (for assistant level applicants) and 5 (for associate/full level applicants) references. To receive full consideration, applications should be received by May 24, 2019. Review will continue until the positions are filled.

### **EEO/AA Policy**

FIU is a member of the State University System of Florida and an Equal Opportunity, Equal Access Affirmative Action Employer all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

### **Contact Information**

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

### **Contact**