

Open Rank - Tenure/Tenure Track position in Structural
Engineering
Florida International University

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Downloaded On: May. 9, 2024 4:57am

Posted Jan. 29, 2024, set to expire May 30, 2024

Job Title	Open Rank - Tenure/Tenure Track position in Structural Engineering
Department	Department of Civil and Environmental Engineering
Institution	Florida International University Miami, Florida
Date Posted	Jan. 29, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor Associate Professor Professor
Academic Field(s)	Structural Engineering Civil Engineering
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Apply By Email

Job Description

Florida International University is a [top public university](#) that drives real talent and innovation in Miami and globally. Very high research (R1) activity and high social mobility come together at FIU to uplift and accelerate learner success in a global city by focusing in the areas of environment, health, innovation, and justice. Today, FIU has two campuses and multiple centers. FIU serves a diverse student body of more than 56,000 and 290,000 Panther alumni. U.S. News and World Report places dozens of FIU programs among the best in the nation, including international business at No. 2. Washington Monthly Magazine ranks FIU among the top 20 public universities contributing to the public good.

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The [Department of Civil and Environmental Engineering](#) (CEE) at [Florida International University](#) invites applicants for a tenured/tenure-track open-rank (Assistant, Associate or Full Professor) position in Structural Engineering in a Changing Climate. Qualified senior candidates may be considered for tenured positions.

Civil engineering structures are becoming increasingly vulnerable to multitude of hazards under changing climate, underscored by dense populations in risk prone areas. The array of coastal threats, including hurricanes, storm surge, and soil erosion, demands robust hazard characterization - a task that is as complex as it is foundational. The infrastructural needs of risk prone communities are evolving, calling for a reevaluation of current practices and necessitating innovative approaches. There is an urgent call for advanced materials and structural systems designed to fortify communities against the intensifying and increasingly frequent natural hazards. At the same time, the surge in new construction heightens the need for net-zero strategies by innovating building materials, structures, and construction processes to minimize the environmental impact more than ever. Furthermore, the effective management of existing and aging infrastructure systems in our built environment requires novel approaches, as accelerated degradation is becoming apparent. With the stakes raised by dense habitation, the development and deployment of rapid retrofitting techniques have become more critical than ever in risk prone areas.

In response to the urgent call, the Department is seeking an outstanding individual pursuing innovative, world-class structural engineering research that can enhance community resilience. Applicants with expertise in one or more of the following areas within the broader structural engineering theme applied to risk prone communities are especially encouraged to apply:

- Sustainable and resilient infrastructure
- Adaptive structures in a changing climate
- Advanced/Smart infrastructure materials
- Structural health monitoring technologies
- Cyber-physical infrastructure (Digital twinning)
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Performance-based engineering and design

- Computational intelligence including AI/ML
- Automation and smart communities

The candidates must have an earned doctoral degree in Civil Engineering, or a closely related discipline. Evidence of research/scholarship is required. Candidates should show experience in, or high potential for, establishing a strong externally funded research program in the areas of expertise and directing graduate students. Industrial experience and/or experience of collaboration with industry partners is a plus. Registration as a Professional Engineer in Florida (or the ability to obtain such licensure within four years of employment) is preferred.

Strong potential or a demonstrated record of teaching and mentoring students in structural engineering and in design courses that complement the CEE undergraduate and graduate curricula, including the development of new enriching courses is expected. The successful candidates, through integrated research and teaching endeavors, will contribute to modernizing the curriculum with new topics and trends in the candidate's research area. Candidates who can educate CEE students with artificial intelligence and machine learning (AI/ML) in the structural engineering from 'the CEE perspective' will be a plus.

The Department houses several major research centers and laboratories that offer unparalleled collaborative research opportunities including the Wall of Wind ([WOW](#)) that is an NSF Natural Hazards Engineering Research Infrastructure (NHERI) Experimental Facility (EF), the Accelerated Bridge Construction University Transportation Center ([ABC-UTC](#)) – an US DOT Tier 1 UTC, the Wind Hazard and Infrastructure Performance Center ([WHIP](#)) – an NSF Industry/University Cooperative Research Center (IUCRC), and the Lehman Center of Transportation Research ([LCTR](#)). The Department also has a close relationship with the [Extreme Events Institute](#) and the [Institute of Environment](#) both of which are [Preeminent Programs](#) at FIU in support of the interdisciplinary collaborations for environmental science and engineering solutions. The [FIU College of Engineering and Computing](#) is expanding its impact in the four thrust areas: (i) infrastructure and resiliency, (ii) information technology and security, (iii) health, and (iv) clean energy. Candidates pursuing research at the interface of multiple areas in CEE, College of Engineering and across the university are highly desirable to create new opportunities for interdisciplinary teamwork and multidisciplinary research proposals.

Qualified candidates are encouraged to apply to **Job Opening ID 531145** at <https://facultycareers.fiu.edu> and submit a single PDF file that includes:

a.

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Cover letter

- b. Curriculum vitae
- c. Statement of research experience and interests (up to 2 pages)
- d. Statement of teaching experience and interests (up to 2 pages)
- e. A list of names and contact information of at least 3 references who will be contacted as determined by the search and screen committee.

To receive full consideration, applications should be received by 02/29/2024. Reviews may continue until the position is filled.

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

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