

LCA/TEA and indoor environment modeling  
University of Miami

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Posted Jan. 6, 2025, set to expire May 10, 2025

**Job Title** LCA/TEA and indoor environment modeling  
**Department** Civil, Architectural, and Environmental Engineering  
<https://www.coe.miami.edu/>  
**Institution** University of Miami  
Coral Gables, Florida

**Date Posted** Jan. 6, 2025

**Application Deadline** February

**Position Start Date** Aug. 25, 2025

**Job Categories** Core Faculty  
Assistant Professor  
Associate Professor  
Professor

**Academic Field(s)** Mechanical Engineering  
Ecological and Environmental  
Civil Engineering  
Architectural (Building & Construction)

**Apply Online Here** [https://umiami.wd1.myworkdayjobs.com/UMFaculty/job/Coral-Gables-FL/Energy-and-Environmental-Science-and-Engineering\\_R100062029](https://umiami.wd1.myworkdayjobs.com/UMFaculty/job/Coral-Gables-FL/Energy-and-Environmental-Science-and-Engineering_R100062029)

**Apply By Email**

**Job Description**

The College of Engineering (CoE) of University of Miami (UM) seeks exceptional candidates for full-time, tenure-track faculty positions at the rank of Assistant Professor, Associate Professor or Full

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Professor with background and expertise in (1) Indoor Air Environment and Building Energy Modeling or (2) Life Cycle Assessment (LCA) and Techno-Economic Analysis (TEA) for sustainable civil infrastructure systems. These two positions are aligned with the CoE's Energy and Environment technology area, the Sustainability and Resilience Thrust and the University's Climate Resilience Institute. Specific examples of expertise and applications include building and energy system modeling and simulation, indoor air diffusion and quality modeling and simulation, and water distribution system hydraulic analysis, LCA/TEA applied to sustainable civil infrastructure systems, nexus of infrastructure engineering with social sciences and/or public health. Candidates should demonstrate outstanding scholarly achievements and a collaborative research vision that bridges disciplines within the Civil and Architectural Engineering, or other related departments, and across multiple thrust areas under College of Engineering, including but not limited to Sustainability and Resilience, Energy and Environment, Health Engineering and Data Sciences, as well as between regional/national industry partners, and a broad set of stakeholders, including federal and state agencies. The ideal candidate will demonstrate a commitment to the development of transformative career paths and workforce development inspired through cutting edge research and technological innovations in response to societal needs and grand challenges.

The UM is considered among the top tier institutions of higher education in the U.S. for its academic excellence, superior medical care, and cutting-edge research. At the U, we are committed to attracting a talented workforce to support our common purpose of transforming lives through teaching, research, and service. Through our values of Diversity, Integrity, Responsibility, Excellence, Compassion, Creativity and Teamwork (DIRECCT) we strive to create an environment where everyone contributes to making UM a great place to work. We are one of the largest private employers in Miami-Dade County; home to more than 13,400 faculty and staff from all over the world.

### **Qualifications**

Competitive candidates must possess a Ph.D. in Civil Engineering, Mechanical Engineering, Architectural Engineering, Environmental Engineering, or closely related discipline and be able to teach core civil and architectural engineering courses at the undergraduate and graduate level to achieve student outcomes. Development of complementary graduate courses in the candidate's area of expertise is also encouraged. The candidate will advise both M.S. and Ph.D. students and develop a high-quality and productive sponsored research program. Competitive candidates will have a significant record of academic accomplishments, a demonstrated ability to work collaboratively, a commitment to inclusive excellence, and a willingness to expand disciplinary boundaries to address

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complex technical and societal grand challenges.

To ensure full consideration, applicants should submit one single file (maximum 5 MB) containing:

- Cover Letter (highlighting expertise and potential contributions to the University of Miami)
- Current Curriculum Vitae
- Research Statement
- Teaching Statement (including teaching philosophy, teaching experience, commitment to effective learning, and, for the senior position, concepts for new courses)
- Statement on Contributions to Equity, Diversity, and Inclusion
- Contact Information (including email and phone numbers, for at least three references)

If the file size is larger than 5 MB, or you need any technical help with uploading the file(s), please contact Samara Alfonso at [coesearch@miami.edu](mailto:coesearch@miami.edu).

Initial screening of applications will begin immediately, with hires expected for Fall 2025. If you have any questions, please feel free to contact the Chair of the Search Committee, Dr. Gang Wang at [g.wang2@miami.edu](mailto:g.wang2@miami.edu).

### **EEO/AA Policy**

The University of Miami is an Equal Opportunity Employer - Females/Minorities/Protected Veterans/Individuals with Disabilities are encouraged to apply. Applicants and employees are protected from discrimination based on certain categories protected by Federal law. Click [here](#) for additional information.

### **Contact Information**

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

**Contact**      Gang Wang  
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