Civil, Construction and Environmental Engineering - Professor
University of Alabama

Job Title	Civil, Construction and Environmental Engineering - Professor
Department	Civil, Construction and Environmental Engineering https://cce.eng.ua.edu/
Institution	University of Alabama Tuscaloosa, Alabama
Date Posted	Sep. 26, 2024
Application Deadline	Open Until Filled
Position Start Date	Aug. 16, 2025
Job Categories	Professor Endowed/Distinguished Professor
Academic Field(s)	Transportation Engineering Structural Engineering Geotechnical Ecological and Environmental Construction Engineering/Management Civil Engineering Architectural (Building & Construction)
Job Website	https://careers.ua.edu/jobs/civil-construction-and-environmental-engineering-professor-524741-tuscaloosa-alabama-united-states
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Job Description

The Department of Civil, Construction, and Environmental Engineering (CCEE) and the College of Engineering at The University of Alabama invite applications for multiple tenure-track faculty positions the Professor rank. Candidates from under-represented groups in engineering and Architectural, Civil, Construction, and Environmental Engineering are strongly encouraged to apply. Positions may also be available at the Assistant and/or Associate Professor ranks. Applicants should apply online at https://careers.ua.edu/jobs/search/college-of-engineering.

Candidates with prestigious achievements in their field and exceptional national and international reputations will be eligible for consideration for significant endowment support through appointment as an Endowed Shelby Distinguished Professor (https://provost.ua.edu/shelby-endowment/).

Candidates with research interests across all domains relevant to civil, construction, architectural, and environmental engineering are encouraged to apply. Candidates with research and teaching experience in the areas of:

- Architectural Engineering;
- Construction Engineering and Management;
- Geotechnical Engineering;
- Transportation Engineering; and
- Structural Engineering

are of particular interest for these positions and are strongly encouraged to apply. The CCEE department and College aim to: (1) add collaborative faculty who will build upon existing strengths in the Department, College, and University and (2) add faculty who will collaborate to expand the scope of research within the department, College, and University as a whole, see https://cce.eng.ua.edu/ for more information.

To aid potential candidates in better understanding these areas of emphasis in the current search, the following additional information is provided regarding these five subareas:

Architectural Engineering – Candidates should have demonstrated expertise in areas such as: indoor air quality assessment and improvement strategies for enhanced occupant health and comfort; advanced lighting design and controls for energy efficiency, visual comfort, and well-being; acoustic performance and sound control in building environments; integration of acoustics, air quality, and

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lighting systems within sustainable building designs; applied thermodynamics, heat transfer, and mechanical systems engineering applied to distributed energy technologies in facilities and/or community-scale energy applications; and applied research in these areas to improve environmental quality in residential and commercial buildings.

Construction Engineering and Management -Candidates should have demonstrated experience in areas such as: development of novel processes and technologies in the construction industry to reduce embodied and operational carbon emissions; optimization of recycling and reuse during the project life cycle; development of novel sensors and networks for health monitoring and fault detection; digital transformation of the built environment at network and city scales to support decision making for sustainable and resilient infrastructure systems; data-driven approaches to convert passive civil infrastructure assets into live cyber-physical systems; construction and work zone safety innovations and applications; and construction safety and health under extreme conditions.

Geotechnical Engineering – Candidates should have expertise in one or more areas of geotechnical engineering, with primary interests in one of the following: sustainable geo-infrastructure, numerical geotechnical engineering, geotechnical hazard mitigation, geo-environmental engineering, foundation engineering, soil-structure interaction, slope stability, ground improvement techniques, unsaturated soil mechanics, and emerging fields such as bio-geotechnics, energy geotechnics, geothermal engineering, and carbon sequestration.

Structural Engineering – Candidates should have demonstrated expertise in one or more of the following: large-scale experimental testing; development and applications of advanced computational methods and emerging technologies such as artificial intelligence and machine learning; design and modeling of sustainable and resilient civil infrastructure systems subjected to extreme hazards including wild fires and vehicular fires; development of high-performance materials for use in innovative structural systems; 3D printing of steel or concrete elements; having an active role in development of national and international design codes and standards.

Transportation Engineering – Candidates should have experience in one or more of the following areas: network analysis/data science, freight/logistics/supply chain, connected and autonomous vehicles, multimodal transportation safety, traffic operations, sustainable transportation, transportation planning, big/crowd-sourced data as related to transportation, traffic simulation, public transportation, and transportation systems. A working skillset in computer science complementary to connected and autonomous vehicles is desirable.

The CCEE department and College consider teaching, research, and service as the three critical and complimentary portions of their overall mission. Candidates must demonstrate a clear potential to

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successfully develop, lead, mentor, and extramurally fund a highly productive research group with significant scholarly impact in a focus area with long term potential to further build upon the rapid rise and great success of the CCEE department and the College. An ability to collaborate with existing faculty in the key focus areas both within the CCEE department and the College, as well as potential colleagues across the campus, is also highly desirable.

The department, college and university are notable for the collegial, welcoming and supportive spirit we demonstrate to our students, faculty, and staff; thus candidates must demonstrate an ability to support this aspect of our community. The CCEE department and College also pride themselves on the outstanding educational experience provided to their students, and thus faculty candidates must demonstrate an ability to develop and teach courses at both the undergraduate and graduate levels in the faculty member’s area(s) of expertise as well as to teach courses that support the delivery and accreditation of the CCEE department’s core degree programs.

The department offers ABET/EAC accredited Bachelor of Science degrees in civil engineering, construction engineering, architectural engineering, and environmental engineering. The department also offers six minors in the areas of architectural, civil, construction, environmental and water resources, transportation, and structural engineering. At the graduate level, the department offers the Master of Science in civil engineering, the Master of Science in environmental engineering, and Doctor of Philosophy in civil engineering. The department also supports two dual-degree graduate programs – the joint MSCE/MBA and joint MSCE/JD.

Visit UA's employment website at careers.ua.edu for more information and to apply. Requisition will be posted until filled, with an expected start date of August 16, 2025. The University of Alabama is an equal-opportunity employer (EOE) including an EOE of protected vets and individuals with disabilities.

EEO/AA Policy

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The University of Alabama is an Equal Employment/Equal Educational Opportunity Institution. All qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability or protected veteran status and will not be discriminated against because of their protected status. Applicants to and employees of this institution are protected under Federal law from discrimination on several bases. Follow the link below to find out more. "EEO is the Law" https://www.eeoc.gov/overview

Contact Information

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

Contact

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