

TEXAS TECH UNIVERSITY

The Department of Civil, Environmental and Construction Engineering (CECE) at Texas Tech University (TTU) is seeking to fill three full-time tenured or tenure-track faculty positions in the following areas.

- (1) Geotechnical Engineering (31178BR):** Targeted areas of interest include computational geotechnics, bio-inspired geotechnics, geohazard sensing and modeling, energy geotechnics, and resilient infrastructure. Methodologies of interest include, but are not limited to, large-deformation numerical analysis; discrete element modeling; image analysis; characterization of geomaterials by experimental, in-situ testing, and remote sensing; advanced physics-based modeling; and advanced data analytics in geotechnics.
- (2) Pavement Engineering (31179BR):** Targeted areas of interest include advanced characterization techniques for materials for new construction and rehabilitations, innovative technology for infrastructure evaluations and monitoring, sustainability and life-cycle assessment, innovative methods for rehabilitations, pavement management information systems, forensic evaluation methods, innovative specifications for construction and rehabilitation, and advanced techniques for quality control for construction and rehabilitations.
- (3) Construction Engineering (31177BR):** Targeted areas of interest include smart construction technology and materials, bio-inspired construction techniques, 3D printing, modular construction, the use of big data in construction, application of advanced unmanned aircraft systems, internet of things (IoT), virtual reality and wearables, construction exoskeletons, blockchains to the construction of infrastructural projects, and sustainability and safety.

These positions are expected to be filled at the assistant professor level, but outstanding candidates will also be considered at the associate and full professor levels.

Applicants must hold a doctoral degree in Civil Engineering or a closely related field at the time of appointment. The successful candidate will be expected to (1) develop an externally funded and internationally recognized program of independent and collaborative research, (2) supervise graduate students, (3) teach undergraduate and graduate courses in the respective disciplines, (4) work across disciplinary boundaries, and (5) serve the Department, the College of Engineering, and the University. Adherence to robust safety practices and compliance with all applicable health and safety regulations are responsibilities of all TTU employees. Experience working with diverse student populations and first-generation students is highly desirable.

The Civil, Environmental and Construction Engineering Department is served by 29 tenured or tenure-track faculty, including two National Academy of Engineering (NAE) members. The department awards bachelor's degrees in Civil Engineering (BSCE) and Construction Engineering (BSConE), master's and doctoral degrees in Civil Engineering, as well as a five-year professional Master of Environmental Engineering (MEnvE) degree. The BSCE, BSConE, and MEnvE degree programs are accredited by the Engineering Accreditation Commission of

ABET. Current enrollment is approximately 370 undergraduates, 120 MEnvE majors, and 170 master's and doctoral students. The university has a total enrollment exceeding 40,000 students (Fall 2022). The CECE department is part of an inclusive community of scholars in the Whitacre College of Engineering that places high value on diversity as an enabler of inspirational, high-quality experiential education, synergies between undergraduate and graduate research, and transformative multidisciplinary collaborations. TTU recently achieved designation as a Hispanic Serving Institution (HSI). TTU is among 94 public universities and colleges in the Carnegie Classification of Institutions of Higher Education's "Highest Research Activity" category. The City of Lubbock, Texas, is renowned for its friendly people, pleasant climate, and commitment to the University. In recent years, Lubbock has been ranked in the top quartile of US cities for socio-economic and demographic growth. Additional information about the department is available at <http://www.ce.ttu.edu>.

Review of applications will commence immediately and will continue until the position is filled. Full consideration will be given to applications received by January 1, 2023. It is anticipated that the appointment will begin in the fall of 2023. All interested, qualified persons must apply online at <https://www.texastech.edu/careers/> to Job Requisition No. 31178BR (Geotechnical Engineering), Job Requisition No. 31179BR (Pavement Engineering), or Job Requisition No. 31177BR (Construction Engineering). Please upload (preferably in PDF format) [1] a cover letter, [2] detailed curriculum vita, and [3] other documents (as requested on the application website) including teaching statement, research statement, and the names, physical and email addresses, and telephone numbers of three references.

As an Equal Employment Opportunity/Affirmative Action employer, Texas Tech University is dedicated to the goal of building a culturally diverse faculty committed to teaching and working in a multicultural environment. We actively encourage applications from all those who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community at Texas Tech University. The university welcomes applications from minoritized candidates, women, veterans, persons with disabilities, and dual-career couples.