

Faculty position in next-generation infrastructure systems

TEXAS TECH UNIVERSITY -The Civil, Environmental, and Construction Engineering (CECE) Department invites applications for a faculty position in next-generation civil infrastructure systems inspired by the nexus of artificial intelligence, smart material systems, bio-inspired design, additive manufacturing and emerging software-hardware integration technologies. Candidates with expertise in structural applications are of particular interest; however, outstanding candidates in any area of civil engineering are welcome to apply. The hire(s) will result in one or more tenured associate/full professor appointments. The Whitacre College of Engineering has identified four major research thrust areas as part of the current strategic plan – namely, water, energy, smart infrastructure and engineering medicine, with nanotechnology and big data applications as cross-cutting themes. Candidates are expected to have demonstrated high-impact research in the areas described above. Evidence of high-quality teaching particularly in design applications is expected. The successful candidate(s) will have developed an externally-funded and internationally-recognized program of independent and collaborative research; will have a record of significant supervision of PhD students to graduation; will have taught undergraduate and graduate classes pertinent to the field of civil and construction engineering; will have held significant service roles in the profession; and will be expected to serve the Department, the Whitacre College of Engineering, and the University. Applicants must hold a doctoral degree in Civil Engineering or a closely related field at the time of appointment. Texas Tech University is a Hispanic-Serving Institution (HSI). Experience working with diverse student populations and first-generation students is highly desirable.

The CECE Department is home to 32 tenure-track/tenured and research faculty, including two National Academy of Engineering (NAE) members. Nearly 25 percent of the faculty are women and minorities. Seven new faculty have been hired in the last three years. Department faculty's research activity spans regional, national and international research, with active sponsored research valued approximately at 10.5 million dollars per year in the 2017-2021 period. Citations of faculty's published work have doubled in the same period, with a majority of faculty publications occurring with supervised students as lead authors in Tier-1 journals. Additional information about the department is available at www.depts.ttu.edu/cweb/index.php. 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. In the 2020-2021 year, the department enrolled 350+ civil, construction and environmental engineering undergraduate majors; and 120 graduate students with a 50-50 MS-PhD distributional split. Department faculty advised 178 undergraduate degrees, 42 Master's degrees and 11 PhD degrees to completion in 2020-2021.

Texas Tech University is a comprehensive university with 40,000-plus students (Fall 2020) enrolled in twelve schools and colleges across campus. The Texas Tech University Health Sciences Center (TTUHSC) located across campus houses the school of biomedical sciences and the school of medicine, offering opportunities for research collaborations at the intersection of engineering and medicine. 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. Texas Tech University is among select public universities and colleges in the Carnegie Classification of Institutions of Higher Education's "Highest Research Activity" category. The university is located in Lubbock, Texas. The city 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.

Review of applications will commence immediately and will continue until the position is filled. Full consideration will be given to applications received by September 15, 2021. It is anticipated that the appointment will begin Fall 2022.

Individuals interested in applying are requested to go to <https://www.depts.ttu.edu/hr/workattexastech/>. Click on the Faculty tab and search for Requisition ID 25195BR.

Please upload (preferably in PDF format) [1] a cover letter, [2] detailed curriculum vita, [3] a statement of research interests, [4] a statement of teaching interests, and [5] other documents (as requested on the application website) including 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.