

Fall 2016 Advertisement

VANDERBILT UNIVERSITY

TENURE TRACK FACULTY POSITION(S)

CIVIL AND ENVIRONMENTAL ENGINEERING -

CYBER-PHYSICAL SYSTEMS FOR INTELLIGENT INFRASTRUCTURE AND SMART CITIES

Vanderbilt University, Department of Civil and Environmental Engineering, is seeking candidates to fill one, or possibly two, tenure-track faculty positions commencing Fall 2017. Appointments at the assistant professor level are anticipated but higher ranks may be considered for truly outstanding candidates. The department, school and university are fully committed in its research and teaching mission and in this search to diversity, inclusion, and equity. The successful candidate(s) in this search will have research expertise in cyber-physical systems pertaining to civil and environmental engineering, including the urban built environment, transportation infrastructure, and ecological systems. Cyber-physical systems that combine physical and computational elements with networks of smart sensors and advanced algorithms for visualization, decision making and real-time control offer tremendous potential for addressing societal challenges in risk, reliability and resilience of infrastructure, energy and water resources management, and environmental sustainability. Synergy with the departmental (<http://engineering.vanderbilt.edu/cee/Research/index.php>) and school (<http://engineering.vanderbilt.edu/research/StrategicResearchAreas.php>) interdisciplinary research thrust areas is essential. The School of Engineering provides a unique, collaborative, and interdisciplinary research environment that spans a wide range of topics. New trans-institutional programs are creating opportunities for research on issues of broad significance that create and extend collaborations across multiple fields. The successful candidate will carry out high-impact independent research and collaborate effectively with researchers within and beyond the department, as well as with other institutions. Successful candidates are also expected to develop an externally funded, nationally recognized research program. Additionally, the successful candidate will seek to integrate discovery and learning with a strong commitment to teaching at the undergraduate and graduate levels. Teaching responsibilities will include core civil and environmental engineering courses, as well as new courses that are created in his or her area of specialization. The successful candidate(s) will have earned a Ph.D in a related discipline at the time of the appointment. We strongly encourage applications from women and members of under-represented minority groups.

Applications should be submitted online at <https://academicjobsonline.org/ajo/jobs/>.

Applications should include (i) vitae and publication list, (ii) statement of research, (iii) statement of teaching, and (iv) four references. For questions or problems with the online application procedure, send an email to cee2-faculty-search@vanderbilt.edu. Applications will be accepted until November 1, 2016 or until the position is filled.

Vanderbilt University is a private, internationally renowned research university located in vibrant Nashville, Tennessee. Its 10 distinct schools share a single cohesive campus that nurtures interdisciplinary activities. The School of Engineering currently comprises 90 tenured and tenure-track faculty, operates with an annual budget of over \$100 million including \$70 million of externally funded research, and teaches 1,450 undergraduate and 500 graduate students. The School of Engineering over the past decade has been on a strong upward trajectory in its national and international stature and prominence, and is in a period of growth in terms of faculty and facilities. In the 2015 rankings of graduate engineering programs by U.S. News & World Report, the School ranks 3rd among programs with fewer than 100 faculty. Faculty from the Department of Civil & Environmental Engineering lead several thriving research centers and institutes including the Consortium for Risk Evaluation with Stakeholder Participation, Institute for Energy and Environment, Center for Environmental Management Studies, Center for Transportation Operations and Resiliency, and Graduate Studies in Reliability and Risk Engineering and Management. The addition of the 20,000 square foot Laboratory for Systems Integrity and Reliability for realistic-scale testing also offers faculty candidates a unique resource that brings together computational and physical experiments to enable solutions to major problems in energy, security, and other areas of importance to society.

With a metro population of approximately 1.8 million people, Nashville has been named one of the 15 best U.S. cities for work and family by Fortune magazine, was designated the South's Red Hot Town by TIME magazine, was ranked as the number one most popular U.S. city for corporate relocations by Expansion Management magazine, was ranked the number one U.S. city for economic growth potential by Business Facilities Magazine, was identified by Forbes magazine as one of the cities most likely to have the country's highest job growth over the coming five years, and has been designated as one of the 100 Resilient Cities by the Rockefeller Foundation. Nashville also offers a vibrant and eclectic music and food culture, and the middle Tennessee region features a wide array of recreational attractions in both urban and outdoor settings.