

Urban Systems and Sustainable Civil Infrastructure Position

The Department of Civil and Environmental Engineering (CEE) at Rice University (<http://ceve.rice.edu>) invites applications for an assistant faculty position in *urban systems and sustainable civil infrastructure*. The position begins July 1, 2010. We seek candidates with a comprehensive view of integrated urban systems and their physical infrastructures, to strengthen our departmental vision: CEE will advance the sustainability of urban systems and civil infrastructure that are challenged by rapid change and/or extreme events, including demographic explosion, aging infrastructure, mega-urbanization, and global climate change. These critical and emerging challenges will be addressed through theoretical and technological innovations to improve infrastructure resilience and the efficiency of water and energy use; integration of complex system analysis to enhance risk assessment and mitigation; multidisciplinary solutions to improve quality of life and the value of investments in civil infrastructure; and educational efforts that promote ecologically responsible infrastructure design and urban sustainability.

We seek candidates with expertise in one or more of the following areas: life cycle engineering and management of civil infrastructure, ecologically responsible construction, design and retrofitting methods, computational modeling of complex urban systems, advanced structural materials and mechanics, complex water infrastructure systems and disaster response, infrastructure condition assessment and monitoring, geo-mechanics, advanced computational mechanics and multi-physics or multi-scale methods, stochastic mechanics, wind engineering, and coastal structures. A propensity to conduct interdisciplinary and policy-relevant research relating to urban systems and their sustainability is of interest, as well as emphasis on theoretical and quantitative methods for enhancing the sustainability of infrastructure systems. Successful candidates are expected to develop courses within the undergraduate infrastructure program in addition to graduate courses within their area of expertise.

Rice University is a private research institution that occupies a 300-acre tree-shaded campus adjacent to Houston's Museum District and the world's renowned Texas Medical Center. The Department of Civil and Environmental Engineering currently includes 12 faculty members, and seeks to build on the interrelated area of urban systems and sustainable civil infrastructure.

Required qualifications include a Ph.D. in an appropriate Engineering or related discipline, and evidence of excellence in teaching and research. The application should include a letter summarizing qualifications, curriculum vitae, statements of research and teaching interests, and names, addresses, and contact information of three (3) references. Please send the application to: Chair, Urban Systems and Sustainable Civil Infrastructure Search Committee, Department of Civil and Environmental Engineering, MS 318, Rice University, 6100 Main Street, Houston, TX 77005. Review of applications will begin December 30, 2009. Applications from women and under-represented minorities are strongly encouraged.