

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC). The Department of Civil and Environmental Engineering (CEE) at the University of Illinois at Urbana-Champaign invites applications for two full-time tenured or tenure-track faculty positions; all ranks will be considered. The Department seeks to expand its expertise in emerging interdisciplinary areas that are critical in addressing global challenges through innovative education and research and aligned with CEE cross-cutting programs related to sustainability, resilience, risk mitigation, and water and energy systems research. Desired areas of expertise are:

Geotechnical Engineering. Infrastructure development and renewal in congested urban environments, utilizing underground space, shallow geothermal energy production, and advancement of infrastructure resilience to extreme events. Geotechnical engineering including rock mechanics for energy production including shale gas production and hydraulic fracturing, and development of deep geothermal sources and long-term management of energy byproducts such as carbon sequestration and nuclear waste disposal.

Smart Infrastructure and Transportation Systems. Development of intelligent and automated systems for the design, construction, and management of intelligent infrastructure such as smart buildings, smart energy grids, and smart roads for autonomous and connected vehicles. Integration of petascale computing with networked sensing and next-generation multi-modal transportation systems. Development of innovative materials and technologies for designing, constructing, operating, and maintaining sustainable built infrastructure and transportation systems such as advanced materials with adaptive, multi-functional, self-repairing or carbon sequestration capacity; and technologies for sustainable materials, construction management, and life cycle assessment.

Qualified candidates in these areas and within all areas of CEE may be considered as Blue Waters Professors, where substantial computing resources will be available on one of the most powerful computers in the world (<http://engineering.illinois.edu/bluewaters>).

Additional exciting opportunities and positions also exist for tenured full professors in all areas of CEE suited to the Grainger Engineering Breakthroughs Initiative, a \$100-million endowment from the Grainger Foundation (<http://graingerinitiative.engineering.illinois.edu>).

The successful candidates are expected to develop and maintain an internationally recognized research program, to contribute fully to teaching of undergraduate and graduate courses, and to provide service to the profession and university. Successful candidates are also expected to develop interactions with faculty across the department, college and campus. Opportunities exist to participate in related CEE and campus-wide communities, such as the Micro and Nanotechnology Laboratory, Prairie Research Institute, Illinois Center for Transportation, MAE Center (Creating a Multi-hazard Approach to Engineering), the National Rail Transportation Center, the Information Trust Institute, the National Center for Supercomputing Applications, the Institute of Genomic Biology, the Safe Global Water Institute, the Illinois State Geological Survey, as well as nine other Engineering Departments. Applicants must hold an earned doctorate in an appropriate field. Salary and rank will be commensurate with qualifications.

To ensure full consideration, create your candidate profile through <https://jobs.illinois.edu> and upload your application cover letter (addressed to Professor Benito J. Mariñas, Department Head, Department of Civil and Environmental Engineering, 1114 Newmark Civil Engineering Laboratory, 205 North Mathews Avenue, Urbana, IL 61801. Telephone: 217-333-6961), curriculum vitae, a concise summary of past research accomplishments and any teaching experience, a statement of future research and teaching plans, and complete contact information of at least three references by November 1, 2015. Only complete applications will be considered. The starting date is negotiable, but is preferred to be August 16, 2016. Information about the department may be found at our website at <http://cee.illinois.edu/>.

Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities, and a high quality of life as reflected by its ranking as one of the Great Neighborhoods in America by the American Planning Association: <http://www.planning.org/greatplaces/neighborhoods/2007/westurbana.htm>.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).