



Northeastern

Department of Civil and Environmental Engineering Continues a Multi-Year Expansion in Size and Scope

2012-2013

Northeastern University seeks faculty candidates for tenured or tenure-track appointments at the assistant, associate, or full professor level in the Department of Civil and Environmental Engineering and in conjunction with interdisciplinary positions across the campus. The department is in the midst of a significant, multi-year expansion in size and scope, including faculty, facilities, and programs within several disciplines and across disciplinary boundaries. The successful candidate will be expected to demonstrate a proven ability to sustain a research program with an emphasis on interdisciplinary and translational research, teach both undergraduate and graduate classes, and be an active, recognized leader in the discipline. Applicants with a distinguished record and vision in environmental engineering and related fields will be considered for the CDM Smith Endowed Professorship in Civil Engineering. We invite applications from individuals who can contribute to areas of civil and environmental engineering related to **Urban Water and Environmental Systems Engineering**. Other related interdisciplinary positions are also available via separate application and are described at <http://www.civ.neu.edu/civilsearch>.

Today, more than half of the world population lives in cities. High population densities and intense human-environment interactions in urban areas pose important challenges and opportunities for sustainability. Northeastern University, the College of Engineering and the Department of Civil and Environmental Engineering have identified sustainable resource engineering and environmental health within the urban environment as strategic research and education areas. This position will build on and complement existing strengths in the university, with a focus on the environmental health of freshwater systems in the built environment. Example research areas include all aspects of the urban water cycle (e.g., built, modified, natural), environmental issues (e.g., technical and social barriers to water reuse, contaminants of emerging concern, environmental toxicity and public health impact, urban stream syndrome), remediation of stressed urban systems (e.g., decentralized water solutions, environmental or geoenvironmental treatment technologies, river restoration), and related topics. We are especially interested in researchers who take a systems approach (e.g., whole city water balance, impact of climate change on water systems, sustainable water infrastructure); combine experiments, observations (e.g., in situ sensors, remote sensing) and modeling (e.g., empirical and mechanistic modeling); and explicitly consider natural and human interactions. Northeastern University offers opportunities to partner with faculty and research centers already focusing on urban environmental issues, and ongoing research efforts on water systems in the Boston area and globally.

Qualifications: A Doctorate degree in civil and/or environmental engineering or a related field, and an outstanding record of scholarship, teaching, and service commensurate with desired level of appointment.



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About Northeastern University: Northeastern University is located in the heart of Boston and benefits from the intellectual and cultural vitality of an urban environment. Northeastern has numerous international partnerships, is a premier experiential education university, and is a National Science Foundation ADVANCE Institutional Transformation site. The department leads two major research centers, including the NIST-funded center on Versatile Onboard Traffic Embedded Roaming Sensors (VOTERS) and the NIH-sponsored program Puerto Rico Testsite for Exploring Contamination Threats (PROTECT). Faculty enjoy collaboration with other research centers headed in the College of Engineering, including the Homeland Security Center of Excellence on Awareness and Localization of Explosive-Related Threats (ALERT), the NSF-funded Gordon Center for Subsurface Sensing and Imaging Systems (CenSSIS), the NSF-funded Center for High-Rate Nanomanufacturing (CHN), the newly designed George J. Kostas Research Institute for Homeland Security, and several other research centers and clusters in the College of Engineering, College of Science, Bouvé College of Health Sciences, College of Arts, Media and Design, and the College of Social Science and Humanities.

Equal Employment Opportunity: Northeastern University is an Equal Opportunity, Affirmative Action Educational Institution and Employer, Title IX University. Northeastern particularly welcomes applications from minorities, women and persons with disabilities. Northeastern is an E-Verify Employer.

How to Apply: Visit the College website <http://www.coe.neu.edu/coe/> and click on Faculty Positions. Application should include (1) detailed resume, (2) research development statement, (3) teaching statement, (4) copy of one sample journal paper, and (5) list of four references with contact information. Screening of applications begins December 15, 2012 and continues until the position is filled. Questions regarding this position should be directed to Prof. Ferdi Hellweger at civilsearch@coe.neu.edu.

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