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. We invite applications from individuals who can contribute to areas of civil and environmental engineering related to **Bioenvironmental and Ecological Engineering**. Other related interdisciplinary positions are also available via separate application and are described at [http://www.civ.neu.edu/civ/search](http://www.civ.neu.edu/civ/search).

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, civil infrastructure security, 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 bioenvironmental and ecological engineering, particularly areas related to urban sustainability and environmental health protection. We seek individuals who can develop and apply innovative and unique experimental and/or computation methodologies to enable a scientifically-based understanding of the responses of key environmental and ecological systems under large-scale stresses that have consequent implications on human health, sustainability, and security, to enable the prevention, control, and treatment of waste pollution and the design and management of resilient engineered systems that can exist in harmony with human and natural systems. The areas of interest include, but are not limited to, microbial ecology, geocology, eco-integrity and ecotoxicology linked to the fate and transport of contaminants of emerging concern in various phases (water, soil and air); exposure and risk assessment, bioinformatics and data mining approaches (i.e., metagenomics, next-generation sequencing informatics, Big Data analytics, high performance computing or sensor network diagnostics) in predictive and computational toxicology; environmental epidemiology for understanding the linkage between contaminants exposure and public health; sensors and sensor networks for environmental exposure and health monitoring; and the relationship between water resources infrastructure/technology and environmental or public health. The successful candidate will develop a sustained program of externally funded research that leverages engagement with governmental agencies and the expertise of the faculty. Northeastern University offers opportunities to partner with faculty and research centers already
focusing on bioenvironmental and ecological issues, and ongoing research efforts on civil
and environmental engineering in the Boston area and globally. Interested candidates
may be considered for a joint appointment in the newly formed Department of
Bioengineering.

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

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 houses major research centers, including the NIH-
sponsored program Puerto Rico Testsite for Exploring Contamination Threats
(PROTECT), as well as the NIST-funded center on Versatile Onboard Traffic Embedded
Roaming Sensors (VOTERS). Faculty enjoy collaboration with other research centers
headed in the College of Engineering, including the NSF-funded Center for High-Rate
Nanomanufacturing (CHN), the NSF-funded Gordon Center for Subsurface Sensing and
Imaging Systems (CenSSIS), the Homeland Security Center of Excellence on Awareness
and Localization of Explosive-Related Threats (ALERT), the NSF center for Health
Organization Transformation (CHOT), the 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/faculty/positions/ and
click on Faculty Positions. Applications should be submitted under the position entitled
Bioenvironmental and Ecological Engineering and 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 November 15, 2014 and continues until the position is filled.
Questions regarding this position should be directed to Prof. April Z. Gu at
civilsearch@coe.neu.edu.