As part of a strategic initiative in the area of Urban Coastal Sustainability and Climate Adaptation, 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 across the broad area of **Sustainable Urban Coastal Systems**, with particular interest in **Coastal Hydrodynamics**, **Computational Climate Modeling**, and **Resilient and Sustainable Infrastructure Systems**. Interested candidates may be considered for joint appointments in the Department of Marine and Environmental Sciences and Marine Science Center, or other university departments commensurate with their areas of expertise. 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. These positions are part of a series of hires in urban coastal engineering for sustainability and security, global change science, and coastal ecosystems including implications on human health.

Areas of specific interest within **Sustainable Urban Coastal Systems** include:

- **Coastal Hydrodynamics** related to areas such as computational and environmental fluid mechanics, hydrodynamic model development (e.g., circulation, storm surge, tsunamis, urban flooding), hurricane dynamics, coastal and urban flood risk mitigation and adaptation, coupling of multiple system models (e.g., biological, chemical, ecological and geophysical), and climate or land use change impacts on coastal systems.

- **Computational Climate Modeling** related to areas such as climate modeling or data-intensive climate sciences, atmospheric and land surface modeling, coastal oceanography and circulation modeling, global biogeochemistry, sea level rise or climate change impacts on coastal processes, and adaptation of urban and coastal systems, including coupled natural-engineered-human systems.

- **Resilient and Sustainable Infrastructure Systems** related to areas of civil and environmental coastal systems, including interdependent critical infrastructures and lifeline resilience, design of complex civil engineering systems in the face of global climate challenges, multi-hazard risk assessment of infrastructure systems, network topology optimization and modeling, and sustainable energy solutions.

For further information see: [http://www.civ.neu.edu/civ/search](http://www.civ.neu.edu/civ/search).

**Qualifications:** A Doctorate degree in civil engineering or a related field is required by the start date and demonstrated excellence in research, teaching, and service. Senior-level candidates should have a demonstrated record of developing transformative solutions to
global challenges, sustaining a research program with an emphasis on interdisciplinary
and translational research, teaching both undergraduate and graduate classes, and being
an active, recognized leader nationally and internationally in the discipline.

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. A university-wide vision for use-inspired transformative research
that crosses traditional disciplinary boundaries has resulted in strong cross-departmental
ties among the faculty, including joint and affiliate appointments across departments and
colleges. The Civil and Environmental Engineering department houses major research
centers, including the NIH-sponsored program Puerto Rico Testsite for Exploring
Contamination Threats (PROTECT), the NIH-sponsored Center for Research on Early
Childhood Exposure and Development in Puerto Rico (CRECE), as well as the NIST-
funded center on Versatile Onboard Traffic Embedded Roaming Sensors (VOTERS).
Faculty enjoy collaboration with other research centers and clusters across 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, 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 George J. Kostas Research Institute for Homeland Security, the Sherman
Center for Engineering Entrepreneurship Education, and entrepreneurship programs in
the D’Amore-McKim School of Business.

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
Sustainable Urban Coastal Systems 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 December 1, 2016 and continues until the position is filled. Questions regarding
this position should be directed to Joseph Hebert at cee-search@coe.neu.edu.