

Assistant/Associate/Full Professor - Civil and
Environmental Engineering - Geotechnical Engineering for
Sustainability and Climate Resilience
Northeastern University

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Posted Oct. 28, 2024, set to expire Feb. 21, 2025

Job Title Assistant/Associate/Full Professor - Civil and
Environmental Engineering - Geotechnical
Engineering for Sustainability and Climate Resilience

Department Civil and Environmental Engineering Department

Institution Northeastern University
Boston, Massachusetts

Date Posted Oct. 28, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Assistant Professor

Academic Field(s) Ecological and Environmental
Civil Engineering

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Job Description

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About Northeastern:

Founded in 1898, Northeastern is a global research university and the recognized leader in experience-driven lifelong learning. Our world-renowned experiential approach empowers our students, faculty, alumni, and partners to create impact far beyond the confines of discipline, degree, and campus.

Our locations-in Boston; Charlotte, North Carolina; London; Portland, Maine; Oakland; Seattle; Silicon Valley; Toronto; Vancouver; Arlington, Virginia; Miami; and the Massachusetts communities of Burlington and Nahant-are nodes in our growing global university system. Through this network, we

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expand opportunities for flexible, student-centered learning and collaborative, solutions-focused research.

Northeastern University's main campus is located in the heart of Boston and benefits from the intellectual and cultural vitality of an urban environment. Northeastern is a top-tier research university and premier experiential education institution 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.

Northeastern's comprehensive array of undergraduate and graduate programs- in a variety of on-campus and online formats-lead to degrees from undergraduate through the doctorate in nine colleges and schools. Among these, we offer more than 195 multi-discipline majors and degrees designed to prepare students for purposeful lives and careers. The University and the College of Engineering are 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.

About the Opportunity:

As part of a strategic initiative, coordinated across the university under the broad theme of **Sustainability and Impacts of Climate Change**, the Civil and Environmental Engineering Department seeks faculty candidates for tenured or tenure-track appointments at the assistant, associate, or full professor ranks. We seek candidates who are conducting research that applies and develops experimental or computational methods and knowledge to advance **Geotechnical Engineering for Sustainability and Climate Resilience**. Academic rank at the Associate Professor and Full Professor levels will be commensurate with experience and qualifications reflecting a record of demonstrated teaching and scholarly excellence.

Appointments will be in the Department of Civil and Environmental Engineering. Candidates with interest in joint appointments with other departments or colleges should indicate their intent in their application materials, including the cover letter. We seek applicants with expertise in geotechnical engineering related to (1) engineered geotechnical and nature-based solutions for climate change adaptation, (2) geotechnical design and/or reconnaissance for extreme events, including natural hazards (such as earthquakes, hurricanes and land/mudslides), climate change-induced hazards (such as sea-level rise), and their interaction, (3) innovative design and characterization of geomaterials and foundations for sustainable infrastructure, (4) novel geotechnical systems or site characterization to advance offshore/marine renewable energy infrastructure, or (5) sustainability and resilience of natural and urban coastal systems and communities. Candidates that use data analytics or artificial

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intelligence as part of their research methodology are especially encouraged to apply.

Our recruitment initiatives at Northeastern are dedicated to fostering education and research across disciplinary boundaries. We aim to create a signature effort at the interface of the built and natural environments that will accelerate the adaptation of geotechnical systems to a changing climate. Candidates are expected to demonstrate the potential to sustain a research program with a strong emphasis on interdisciplinary and translational research and teach both undergraduate and graduate classes. They should also exhibit active and recognized leadership in their respective fields.

We encourage applicants from a wide range of backgrounds, including academia, government, and industry.

Candidates should be committed to fostering diverse and inclusive environments as well as promoting experiential learning, which are central to a Northeastern University education.

Responsibilities:

Tenure-track faculty in the Department of Civil and Environmental Engineering will be responsible for: teaching courses at the graduate and undergraduate level; developing vigorous research programs that attract external funding; advising, mentoring, and overseeing students and post-doctoral associates in their area of research; and participating in service to the department, university, and discipline. Candidates are encouraged to collaborate with other departments and colleges across the university on interdisciplinary research.

Requirements:

This tenure-track faculty position requires at least a Ph.D., or foreign equivalent, in civil engineering, environmental engineering, or a related field, by the employment start date.

For consideration at the Associate Professor level, applicants must have at least 2 years relevant experience. For consideration at the Full Professor level, applicants must have at least 3 years relevant experience. Relevant experience may include, but is not limited to: developing transformative solutions to global challenges; sustaining a research program with a strong emphasis on interdisciplinary and translational research; teaching both undergraduate and graduate classes; and being an active, recognized leader nationally and internationally.

Visit the College website <https://coe.northeastern.edu/faculty/faculty-hiring/>. Applicants should select their theme of interest as **Geotechnical Engineering for Sustainability and Climate Resilience**. For further information on the statements, please see Additional Information:

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1. Cover letter
2. Full curriculum vita
3. Statement of Research Interests, Objectives, & Vision
4. Statement of Teaching Interests & Philosophy
5. Statement of Diversity, Equity, Inclusion, and Belonging
6. Names and contact information for at least three professional references

Screening will begin by November 1, 2024 and will continue until the search has concluded.

Additional Information:

Statement of Research Interests, Objectives, & Vision: Please describe the focus of your research, including the questions you have identified, any funding you have received to support the work, the results you have discovered, and the products of these efforts. Please also describe any research you have undertaken with students, with the external community, and/or with individuals from marginalized groups. Finally, please outline the research directions you foresee pursuing as a faculty member.

Statement of Teaching Interests & Philosophy: Please summarize your past instructional and mentorship experiences, your pedagogical philosophy, your plans/goals for teaching (including existing and proposed courses), and your strategies for teaching and mentoring a diverse cohort of undergraduate and graduate students.

Statement of Diversity, Equity, Inclusion, and Belonging: Please provide a statement of your commitment and/or contribution(s) that describe your past experience, activities, and/or future plans to advance diversity, equity, inclusion, and the value proposition of belonging in your teaching, research, and service. Your statement should demonstrate an understanding of the barriers facing marginalized communities in your field/community and be in alignment with both Northeastern's mission and BEYOND 2025. A more developed and substantial plan is expected for senior candidates.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion.

All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

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To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Civil and Environmental Engineering Department
Northeastern University

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