

Assistant/Associate/Full Professor

Chemical Engineering - Food, Water, Energy Nexus

Northeastern University, Department of Chemical Engineering
Boston, MA

Apply Here: https://northeastern.wd1.myworkdayjobs.com/en-US/careers/job/Assistant-Associate-Full-Professor---Chemical-Engineering---Food--Water--Energy-Nexus_R119843

The Department of Chemical Engineering seeks applications for open-rank (Assistant, Associate, or Full Professor), interdisciplinary faculty candidates with research interests focused within the food, water, energy nexus. Candidates will have the opportunity to collaborate in cross-disciplinary teams across the University and will complement existing strengths.

We are seeking up to 3 faculty this cycle with research interests and expertise in areas of:

- *Energy Storage for a Sustainable Future* including fundamental materials development, energy storage & delivery capability, synthetic biology tools for energy, climate and environmental modeling, and new novel low-cost options.
- *(De)manufacturing* including alternatives for feedstocks and degradation of the products, synthetic biology tools for sustainability, life cycle analysis, catalysis, recycling/upcycling, plastics/microplastics, carbon capture, renewable and sustainable consumer products, and process intensification.
- *Clean Water* including materials and filter development, cost-effective sourcing, delivery of clean water to urban and densely populated areas, water treatment, environmental sensing and monitoring.

In addition to foci listed above, fields that may be relevant include materials and nanomaterial science and engineering, photochemistry, synthetic chemistry, analytical chemistry, and bioengineering.

Responsibilities

Faculty members at Northeastern teach courses at the graduate and undergraduate level; mentor students and postdocs in their area of research; and participate in service to the department, university, and discipline. Candidates are expected to develop independent research programs that attract external funding and generate vigorous research programs cross-cutting chemical, biological, environmental engineering, and/or materials science. Our workload policy is available online (<https://provost.northeastern.edu/app/uploads/ChemE-workload-policy.pdf>).

Requirements

A Ph.D. in Chemical Engineering or a closely relevant field by the appointment start date is required. We encourage applicants from a wide range of backgrounds, including academia and industry and encourage joint appointments within and across colleges. Many of our recent hires enjoy joint appointments with the Department of Chemistry and Chemical Biology, and we are seeking candidates who are interested in this collaborative environment. 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.

A complete application includes a curriculum vitae; a statement of research interests and objectives; a teaching statement; a diversity, equity, inclusion, and belonging statement that addresses the prompts available below; and at least three reference letters. Please see the information below for detailed information on what documents to include and what we are looking for within each statement. Applications will be reviewed beginning on **November 1, 2023**.

Statement Prompts:

Statement of Diversity, Equity, Inclusion, and Belonging: Please provide a statement of your commitment and/or contribution(s) that describe your past practice, 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: The Academic Plan [Paragraph 4.1 A Magnet for Diversity, and a Place of Belonging](#). . A more developed and substantial plan is expected for senior candidates.

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.

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.

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

Apply Here: https://northeastern.wd1.myworkdayjobs.com/en-US/careers/job/Assistant-Associate-Full-Professor---Chemical-Engineering---Food--Water--Energy-Nexus_R119843