

Assistant Professor of Engineering in Coastal Resilience - (2 Positions)
University of Rhode Island

The College of Engineering at the University of Rhode Island (URI) invites applications for two tenure-track faculty positions at the assistant professor level in the broad area of coastal resilience. The successful candidates will join a dynamic group of researchers and educators throughout URI focusing on the Blue Economy and related topics such as coastal processes and modeling, sediment transport and erosion, hydrodynamics, multi-hazard analysis of storm events, coastal flood risk assessments, marine affairs, nature-based flood protection systems, and the effects of extreme events, subsidence, and sea level rise on coastal communities and infrastructure. URI has recently completed a \$150 million redevelopment of its Engineering College on the main campus and is planning (as part of a \$125 million redevelopment of URI's Bay Campus) for the construction of a new, \$35 million ocean engineering and large-scale tank facility to support these activities. URI is also a member of the nationwide DOE-sponsored TEAMER program that allows technology developers to conduct tests at URI's facilities including its wave tank.

It is anticipated that the successful candidates, depending upon their expertise and interests, will join our College's faculty in the Departments of Ocean Engineering, Civil and Environmental Engineering, or Mechanical, Industrial, and Systems Engineering in Fall 2023. Applicants should have expertise in one or more areas of coastal resilience engineering, including but not limited to:

- experimental and numerical methods in coastal processes and flood protection systems
- large-scale coastal engineering laboratory facilities
- coastal wave processes and surfzone hydrodynamics
- erosion and sediment transport
- beach/dune protection and renourishment
- laboratory or field instrumentation for coastal and offshore measurements
- coastal structures and geotechnics
- interactions of coastal structures with waves, storm surge, and wind
- impacts of climate change and coastal hazards on communities and infrastructure
- assessment of coastal risk and incorporation of resilience in designs for flood/erosion
- risk reduction using holistic/integrated modeling systems
- nature-based coastal mitigation measures
- performance and fragility assessment of transportation infrastructure/buildings subjected to coastal storms

The University of Rhode Island is a comprehensive doctoral research, Land Grant, Sea Grant and Urban Grant University. It is a medium-sized public university located near the southeastern end of the state in picturesque New England. The main campus is located in Kingston, an established, family-friendly community only five miles from Narragansett Bay and the Atlantic Ocean. Rhode Island's proximity to the ocean moderates its weather compared to other New England States. The region offers excellent outdoor recreational activities, good public school systems, and ready access by car or public transportation to Providence, Boston, and the New York City metropolitan areas and airports.

The College of Engineering offers innovative undergraduate and graduate programs leading to BS, MS, and PhD degrees, stresses links between diverse fields of inquiry, and values outreach, scholarship, and laboratory-based learning. There are strong linkages in the coastal and marine sciences and policy within the Graduate School of Oceanography and other entities across the university. The College also participates in the National Institute for Undersea Vehicle Technologies (NIUVT).

As a College we believe in the inherent worth and dignity of all individuals and groups, and that equity and inclusion are critical components for a department, college, and campus community to thrive. We hope to attract applicants who can teach in a diverse university community and have demonstrated ability in helping students from diverse backgrounds succeed. We are committed to building a multicultural work force and strongly encourage women, racial/ethnic/gender minorities, persons with disabilities, veterans, and foreign nationals to apply. The University of Rhode Island is an Equal Opportunity/Affirmative Action employer.

Duties and Responsibilities:

The successful candidate will be expected to establish a nationally and internationally recognized teaching and research program in coastal resilience and become an international leader in this field.

Qualifications

Required:

1. An earned doctorate in Ocean/Coastal Engineering, Civil Engineering, Mechanical Engineering, Industrial/Systems Engineering, or a related field at the time of appointment.
2. Demonstrated ability to teach at the undergraduate and/or graduate level.
3. Demonstrated record of scholarly achievement in coastal resilience evidenced by publications, presentations, or awards.
4. Demonstrated evidence working with diverse groups/populations (not limited to race, ethnicity, and gender).
5. Demonstrated proficiency in written communication skills.
6. Demonstrated proficiency in verbal communication and interpersonal skills.

Preferred:

1. Ability to teach coastal structures and geotechnics, coastal and flood zone hydrodynamics, risk and probabilistic methods, or process-oriented modeling at the undergraduate and graduate levels, including numerical and experimental laboratory courses.
2. Experience in pursuing and attracting research funding.

Applying:

The search will remain open until the positions have been filled. First consideration will be given to applications received by 12/15/2022. Second consideration may be given to applications received by 12/31/2022. Applications received after the second consideration date may not be given full consideration. Applicants should submit the following: (1) a cover letter; (2) a complete curriculum vitae including the full contact information for at least three professional references outside of URI; (3) a narrative describing your research and how it relates to the required qualifications; (4) a narrative describing your teaching background, philosophy, and preferences, including existing courses in our

departments and new courses you might develop; and (5) a narrative describing your activities with respect to diversity.

To be considered an applicant, you must apply on-line at

<https://jobs.uri.edu/postings/10834>

Questions about the position can be forwarded to the Chair of the Search Committee, Peter Swaszek <swaszek@uri.edu>.