

Empire Innovation Professor/Scholar (Associate
Professor) - Offshore Foundation Systems
Stony Brook University

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Posted Feb. 15, 2024, set to expire Jun. 14, 2024

Job Title	Empire Innovation Professor/Scholar (Associate Professor) - Offshore Foundation Systems
Department	Department of Civil Engineering, College of Engineering and Applied Sciences
Institution	Stony Brook University Stony Brook, New York
Date Posted	Feb. 15, 2024
Application Deadline	05/01/2024
Position Start Date	Available immediately
Job Categories	Associate Professor
Academic Field(s)	Civil Engineering
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**Empire Innovation Professor/Scholar (Associate Professor) - Offshore Foundation Systems -
Department of Civil Engineering, College of Engineering and Applied Sciences**

Location: Stony Brook, NY

Open Date: Jan 29, 2024

Deadline: May 01, 2024 at 11:59 PM Eastern Time

Description

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The Department of Civil Engineering at Stony Brook University invites applications for a tenure-track faculty position at the **associate professor** level in the area of **offshore foundation systems**.

The faculty hire is to focus on developing and optimizing innovative foundation systems for offshore wind and marine renewable energy systems, improving methods for analyzing sediment-structure interaction and subsurface effects on foundation performance, mooring systems for renewable wind/wave/current energy systems, improved designs for anchored and floating foundation/anchorage systems and optimizing models for operational and extreme loading.

Expertise in geotechnical engineering and sediment-fluid-structure interaction is sought. Responsibilities for the position include establishing a robust externally-funded research program, pursuing high-impact scholarly research, teaching undergraduate and graduate courses as part of the civil engineering curricula, advising and guiding students, and becoming engaged in outreach and professional activities.

This search is in response to Stony Brook University's commitment to develop solutions in response to the harmful effects of climate change. Stony Brook University has recently embarked in large strategic initiatives to strengthen its mission to develop solutions in response to the harmful effects of climate change. Stony Brook University is the anchor institution for the New York Climate Exchange, a first-of-its-kind international center being developed at NY's Governors Island for developing and deploying dynamic solutions to our global climate crisis, while also acting as a hub for New Yorkers to benefit from the new green economy. The faculty-driven initiative "Collaborative for the Earth" is a multi-disciplinary "action-tank" that seeks to develop solutions in response to the harmful effects of climate change and in abatement of existential risks to the living world's interconnected life-supporting systems. There are some 20 faculty engaged in offshore wind and related research, from basic science, to engineering, to environmental impacts. Some faculty expertise related to the search area includes wind-farm modeling, geosystems, computational science for fluid-structure interaction, power grids, ocean currents, and waves, impact on marine life, and climate modeling

The College of Engineering and Applied Sciences and Stony Brook University are committed to build a culture of diversity, equity, and inclusion that provides a welcoming environment to everyone by fostering a respectful and tolerant community of scholars. The recruitment of faculty with diverse talents, skills, backgrounds, and experiences is thus of particular importance.

Qualifications

Required Qualifications:

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A Ph.D. degree (or foreign equivalent) in civil engineering or a closely related field. A well-established record of external research funding as a principal investigator. A strong record of scholarly publications. Potential for securing externally supported research, particularly at the federal level. Demonstrated excellence in teaching in an environment similar to SBU. Evidence of notable research contributions as demonstrated by research papers and/or awards.

Preferred Qualifications:

Industry experience related to the candidate's field of expertise. A Professional Engineer's license. Ability to create synergy with the existing expertise in the Department of Civil Engineering. Ability to conduct intra- and multidisciplinary research.

Application Instructions

To apply, visit <http://apply.interfolio.com/139226>.

Applications received by April 15, 2024, will receive full consideration. Candidates who apply after April 15, 2024, will be considered on a rolling basis until the position is filled.

Applicants need to electronically submit the following required documents listed below. Please apply here with the requested documents:

- 1) Cover letter
- 2) Curriculum Vitae
- 3) Research statement
- 4) Teaching Statement
- 5) Diversity Statement
- 6) Three (3) representative research publications
- 7) Four (4) professional references contact information

All application materials must be submitted online. Please use the Apply Now button to begin your application. For technical support, visit Interfolio's Support Site (<https://support.interfolio.com/>) or reach

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out to their Scholar Service Team at help@interfolio.com or (877) 997-8807.

Applicant inquiries can be emailed to: Ms. Malina Salman, malina.salman@stonybrook.edu.

Department Description: The Department of Civil Engineering at Stony Brook was established in 2012 and is now one of nine academic departments within the College of Engineering and Applied Sciences (CEAS). The department currently consists of 10 tenure-system faculty members, with approximately 185 undergraduate and 40 graduate students. Faculty in civil engineering department are engaged in diverse research, mostly grouped in the following areas: coastal and hydraulic engineering, computational engineering mechanics, data analytics and smart cities, structural mechanics, geosystems engineering, and water quality. The department recently developed a number of key state-of-the-art research facilities, including an 85-ft integrated wave and current flume facility, and a super-computing cluster with over 1,200 cores and 70 TB data storage. A properly equipped geotechnical engineering laboratory is also available.

As one of the only two comprehensive (Bachelors to Ph.D.) civil engineering programs within the State University of New York, the Department of Civil Engineering at Stony Brook University is playing a key role in addressing critical infrastructure challenges regionally and globally. The department is a partner of the New York State (NYS) Center for Clean Water Technology, the NYS Infrastructure, Transportation, and Security Center, and the Atlantic Marine Energy Center. Faculty also have the opportunity to collaborate with researchers in the Center of Excellence in Wireless and Information Technology (CEWIT), the Advanced Energy Research and Technology Center (AERT), and the Institute for AI-Driven Discovery and Innovation. Collaborative opportunities also exist with Brookhaven National Laboratory and Cold Spring Harbor Laboratory, both of which are less than 30 miles from campus.

SBU campus Description: Stony Brook University, one of four research-intensive campuses within the State University of New York (SUNY) system, is widely regarded as its flagship. The University embraces its mission to provide comprehensive undergraduate, graduate, and professional education of the highest quality, and its rankings bear that out. It is included among the top 1% of universities in the world by the 2018 QS World University Rankings and among the top 26 public universities by U.S. News & World Reports 2024 Best Colleges rankings. It is a member of the prestigious Association of American Universities, composed of the top 62 research institutions in North America. As Long Island's largest single-site employer, Stony Brook has nearly 15,000 full and part-time employees, including more than 2,700 faculty. It enrolled roughly 26,800 students in fall 2019 - 17,900 undergraduate students and 8,900 graduate students - and offers more than 200 majors, minors, and combined-degree programs. The Department of Athletics supports 18 Division I varsity intercollegiate athletic

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programs that compete at the highest level within the NCAA. Located approximately 60 miles east of Manhattan on Long Islands beautiful North Shore, Stony Brook is situated on 1,454 wooded acres, encompassing 13 schools and colleges; a Research and Development Park; world-class athletics facilities, including an 8,300-seat stadium and a 4,000-seat arena; and Stony Brook Medicine, Long Islands premier academic medical center. Also, part of the University is a teaching and research campus in Southampton, New York, which offers graduate arts programs and is the site of the Marine Sciences Center. **In addition, Stony Brook has a role in running, and performs joint research with, Brookhaven National Laboratory (BNL), the only Department of Energy Laboratory in the Northeast.** Home to the Emerson String Quartet, the Pollock Krasner House in East Hampton, NY, and the Humanities Institute, with endeavors that extend to the Turkana Basin Institute in Kenya and the Ranomafana National Park in Madagascar, Stony Brook sustains an international reputation that cuts across the arts, humanities, social sciences, and natural sciences.

Special Notes:

This is a tenure-track position. FLSA Exempt position, not eligible for overtime. Internal and external search to occur simultaneously.

Anticipated Start Date: Fall 2024

The selected candidate must successfully clear a background investigation.

In accordance with the Title II Crime Awareness and Security Act, a copy of our crime statistics is available upon request . It can also be viewed online at the University Police website at <http://www.stonybrook.edu/police>.

Stony Brook University is committed to excellence in diversity and the creation of an inclusive learning, and working environment. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, familial status, sexual orientation, gender identity or expression, age, disability, genetic information, veteran status and all other protected classes under federal or state laws.

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Contact Information

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

Contact

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