

Postdoctoral Associate New York University

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Posted Feb. 7, 2025, set to expire Jun. 9, 2025

Job Title	Postdoctoral Associate
Department	Mechanical and Aerospace Engineering - Biomedical Engineering
Institution	New York University Brooklyn, New York
Date Posted	Feb. 7, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Mechanical Engineering
Apply By Email	
Job Description	

POSTDOCTORAL ASSOCIATE

New York University Tandon School of Engineering

The Dynamical Systems Laboratory at NYU Tandon School of Engineering is seeking to hire a **Post Doctoral Associate** to work the mechanics of deep-sea sponges. We seek independent, motivated, and creative individuals interested in experimental, theoretical, and computational research. This position is fully funded with a competitive salary.

The DSL was established almost twenty years ago by Prof. Maurizio Porfiri (Institute Professor at Tandon School of Engineering and Director of the Center for Urban Science and Progress, with appointments at the Department of Mechanical and Aerospace Engineering, the Department of Biomedical Engineering, the Department of Civil and Urban Engineering, and the Center for Urban Science and Progress).

The DSL is home to a highly collaborative, vibrant group of young scholars with complementary expertise across theory,

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experiments, and computations. The director, Prof. Porfiri, is the author of more than 400 journal publications and the recipient of numerous professional awards (Wikipedia/Maurizio_Porfiri).

New York University (NYU) is one of the top private universities in the United States, and the Tandon School of Engineering, located in Brooklyn, NY, is deeply committed to excellence in teaching and learning. Tandon fosters student and faculty innovation and entrepreneurship that make a difference in the world.

Expectations:

The successful candidate will be responsible for leading experimental and theoretical research to examine the mechanical response of deep sea sponges living in groups. The candidate is expected to: i) lead the design and creation of an experimental setup to examine fluid-structure interactions between 3D-printed models of deep sea sponges and ii) lead the formulation and analysis of finite-element, as well as mathematically tractable structural models. As appropriate, the candidate will be responsible for mentoring undergraduate, master's, and doctoral students, coordinating outreach activities, and supporting proposal writing and grantsmanship. The successful candidate will have a demonstrated background in experimental mechanics, fluid mechanics, fluid-structure interactions, and solid mechanics; as exemplified by a strong publication record.

Qualifications:

Candidates should have a PhD in Mechanical Engineering, Engineering Mechanics, or closely related fields. Previous research experience in biological systems is a plus. We welcome applicants with recent PhDs and individuals seeking additional postdoctoral training. Candidates will be required to present eligibility to work in the United States.

Salary range:

In compliance with NYC's Pay Transparency Act, the annual base salary for this position is \$62,500 depending on the candidate's experience and qualification.

Application instructions:

Applicants should submit, as one pdf, the following information:

- an up-to-date CV that includes a complete list of publications,
- a research statement that describes their interest and goals and how their research relates to this position,

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- copies of up to three relevant scientific papers,
- names and contact information for three references.

All application materials should be submitted electronically via Interfolio and to mp2522@nyu.edu

Review of applications will begin as soon as possible and will continue until the position is filled.

Expected start date is: September 1st, 2025.

EEO/AA Policy

New York University is an Equal Opportunity Employer. NYU does not discriminate due to race, color, creed, religion, sex, sexual orientation, gender and/or gender identity or expression, marital or parental status, national origin, ethnicity, citizenship status, veteran or military status, age, disability, unemployment status or any other legally protected basis, and to the extent permitted by law. Qualified candidates of diverse ethnic and racial backgrounds are encouraged to apply for vacant positions at all levels.

Contact Information

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

Contact Maurizio Porfiri
Mechanical and Aerospace Engineering - Biomedical
Engineering
New York University
Brooklyn, NY

Contact E-mail mporfiri@nyu.edu