

Postdoctoral Researcher - Civil, Environmental, and
Ocean Engineering
Stevens Institute of Technology

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Posted Aug. 4, 2025, set to expire Jul. 25, 2026

Job Title Postdoctoral Researcher - Civil, Environmental, and Ocean
Engineering

Department Civil Environmental & Ocean Engineering

Institution Stevens Institute of Technology
Hoboken, New Jersey

Date Posted Aug. 4, 2025

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Water Resources Engineering
Ecological and Environmental
Civil Engineering

Job Website https://stevens.wd5.myworkdayjobs.com/External/job/Hoboken-NJ---Main-Campus/Postdoctoral-Researcher---Civil--Environmental--and-Ocean-Engineering_RQ29348-1

Apply By Email

Job Description

The Department of Civil, Environmental, and Ocean Engineering at Stevens Institute of Technology invites applications for a Postdoctoral Researcher to join the iSMART (Intelligent Systems for Monitoring and Assessment of Riverine and Terrestrial Environments) Lab.

This position offers an exciting opportunity to contribute to cutting-edge research in cold regions hydrology, with an emphasis on river ice processes and hydrodynamic modeling in northern U.S. watersheds. The successful candidate will engage in interdisciplinary work involving remote sensing,

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hydraulic modeling, and environmental forecasting to better understand and predict ice-related river dynamics and flooding. The postdoctoral researcher will also play a key role in collaborative proposal development, scientific publishing, and mentoring graduate students within the lab.

- Advance research in the field of cold regions hydrology with a focus on US northern watersheds.
- Advance the use of optical and radar remote sensing data to enhance monitoring and analysis of river ice conditions.
- Implement and assess forecasting models for water temperature in river systems
- Calibrate and validate hydraulic models to simulate ice jam processes and their influence on ice-induced flooding.
- Assist in writing research proposals and publishing findings in collaboration with other iSMART lab members.
- Contribute to the supervision and mentorship of Master's and PhD students within the iSMART lab.

Qualifications:

- Ph.D. in Civil Engineering, Environmental Engineering, Hydrology, Remote Sensing, or a related field.
- Experience with remote sensing techniques and satellite data (optical and radar).
- Demonstrated publication record in peer-reviewed journals.
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Excellent written and verbal communication skills.

- Ability to work independently as well as part of a collaborative research team.

Contact Information

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

Contact

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