

Job opening for Post-Doctoral Researcher in Environmental Water Resources Science at UMass Amherst

We are seeking a Postdoctoral Research Associate focusing on two areas: 1) how climate change will alter aquatic flows in streams and rivers across the country; and 2) how climate information can be further incorporated into aquatic ecosystem management. This position, which will be located at the University of Massachusetts Amherst, is part of the U.S. Geological Survey's [Future of Aquatic Flows initiative](#). The title of the project associated with this opening is "A data-driven framework to inform projections of aquatic flows in the Northeast".

Job responsibilities will include:

- Development of project research goals through innovative ideas and approaches.
- Development of a data-driven framework for hydroclimatic modeling including preparation of documentation and instructional material.
- Implementation and analysis of case studies to demonstrate use of scientific machine learning in providing climate change information.
- Communication and needs assessment of Northeast stakeholders, interaction with other post-doctoral researchers in the Climate Adaptation Fellows cohort, and participation in research group meetings.
- Preparation and presentation of research papers and reports at national and international scientific meetings. Presentation of occasional lectures and seminars, as requested.
- Other duties as assigned.

Requirements include:

- Ph.D. in Civil and Environmental Engineering, Geosciences, Data Science, Statistics, Applied Mathematics, Ecology, Water Resources, Forest Resources, or related field.
- Demonstrated programming and data management skills, knowledge of statistical methods, and experience with computational methods and modeling.
- Demonstrated skills in writing scientific papers and project reports.
- Ability to travel and participate in project research meetings, and give scientific presentations at national meetings.

Applicants must provide a CV, a cover letter describing their research experience and interests, and the name and contact information (email address) of three professional references. Search will remain open until filled.

Please submit applications and any questions about the position to the project PI Konstantinos Andreadis (kandread@umass.edu).

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