

Postdoctoral Fellowship

Building a coupled ice-surge-wave forecast modeling system for Western Alaska

Cooperative Institute for Great Lakes Research
School for Environment and Sustainability
University of Michigan in Ann Arbor, Michigan

Job Summary

A postdoctoral fellowship is available for a highly qualified individual to work on a NOAA-funded grant that will develop storm surge forecasts for western Alaska. Regional forecasters and the communities they serve in this region are limited in their ability to assess threats from storm events, and have no basis to determine risk, the potential impacts of storms, or to evaluate safe evacuation routes and locations. The region's complex geography, patterns of atmospheric and ocean circulation, and extensive continental shelf and coastal floodplain leaves many western Alaskan communities vulnerable to flooding events.

The successful candidate will collaborate with a multi-disciplinary team that is developing physical models for the northern Pacific Ocean, Bering, Chukchi and Arctic Seas that will help guide management decisions in those regions. The fellow will lead a component of the project that is focused on building a coupled ice-surge-wave forecast model for western Alaska, and will be expected to complement the project with additional ideas and directions of their own that contribute to the broader goals of the grant.

The successful applicant's appointment will be with the Cooperative Institute of Great Lakes Research (CIGLR), which is part of the University of Michigan's School for Environment and Sustainability located in Ann Arbor, Michigan. CIGLR is a collaboration between the University of Michigan and NOAA that brings together experts from academia and government research labs to work on pressing challenges. The postdoctoral fellow will spend the majority of their time at NOAA's Great Lakes Environmental Research Lab (GLERL) in Ann Arbor where they will work under the joint supervision of Dr. Ayumi Fujisaki-Manome (UM-CIGLR) and Dr. Jia Wang (NOAA-GLERL). The fellow will also spend a portion of their time on the University of Michigan's main campus in Ann Arbor, where they will interact with the large, vibrant community of earth and climate scientists.

The University of Michigan is consistently ranked among the top American public research universities, and Ann Arbor is routinely ranked as one of the best places to live in the U.S. due to its affordability, natural beauty, preservation of wooded areas, vibrant arts program, and lively downtown.

The postdoctoral fellowship offers a highly competitive salary plus benefits. The initial appointment is for one year, with opportunity for extension on the basis of satisfactory progress and availability of funds.

Qualifications

The position requires a Ph.D. in physical oceanography, meteorology, or a related field, as well as a solid record of scholarship. A background in some form of physical modeling (ice, ocean, wave, or atmospheric modeling) is also required.

Apply

To apply, applicants should prepare the following materials:

- Cover letter describing your qualifications related to the position and research accomplishments
- Curriculum vitae
- Contact information for three professional references
- Two representative publications

Applications are due by October 15, 2018.

Email your application to:

Mary Ogdahl
Program Manager, Cooperative Institute for Great Lakes Research
School for Environment and Sustainability
University of Michigan
ogdahlm@umich.edu

*The University of Michigan is a Non-Discriminatory/ Affirmative Action Employer.
Individuals from underrepresented groups are especially encouraged to apply.*