



Ocean Dynamics and Prediction Branch

Arctic Sea Ice Modeling

The Naval Research Laboratory (NRL) is seeking a postdoctoral associate in physical oceanography to expand our understanding of Arctic Ocean dynamics important for improving the forecast capabilities of the Navy's state-of-the-art coupled ice-ocean-atmosphere model prediction systems. The candidate will work with NRL researchers in developing new techniques for the assimilation of satellite-derived sea ice thickness data into the Community Ice Code (CICE6) and study Arctic processes with global and relocatable ice-ocean-atmosphere coupled modeling systems. This challenging work requires a broad understanding of physical oceanography and Arctic processes. The selected applicant will work with NRL researchers to study wave-ice interactions, landfast ice, melt ponds and their impact on Arctic thermodynamics, and incorporating new sensor data into our data assimilation systems. The candidate will work with our state-of-the-art regional and global coupled deterministic and ensemble-based modeling systems. Strong programming skills, especially with Python and FORTRAN, are preferred. Familiarity with CICE, HYCOM and WaveWatch III models and data assimilation techniques would be beneficial.

The Naval Research Laboratory provides an opportunity to work with a large group of highly skilled and internationally recognized physical oceanographic researchers. We have access to excellent supercomputing and general computational resources in addition to extensive historical and real-time regional and global data sources. For an overview of research efforts in the Ocean Dynamics and Prediction branch of the Naval Research Laboratory located at the Stennis Space Center in Mississippi, visit the web site: <https://scholar.google.com/citations?user=atCgUG8AAAAJ>

Annual postdoctoral salary is \$79,363. Applicants must be a US citizen or US permanent residents at time of application. NRL is an equal opportunity employer. Send resume and references to:

Richard Allard
Head, Nearshore and Coupled Models Systems Section via e-mail: Richard.allard@nrlssc.navy.mil
NRL Code 7322
Stennis Space Center, MS 39529



MINIMUM REQUIREMENTS

Security clearance is not required, but applicants must be eligible for a DoD Security Clearance.

JOB BENEFITS

The post doctorate programs at NRL offer benefits including health and life insurance.

NRL is an Equal Opportunity Employer

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