



Ocean Dynamics and Prediction Branch

Surface Wave Forecasting

The Naval Research Laboratory has an opening for a post-doctoral researcher in its nearshore and coupled modeling section, focusing on ocean surface waves. Research areas range from small-scale, phase-resolved simulations of waves in shallow water or sea ice to global forecasting and assimilation of frequency-directional wave spectra. The position offers opportunities to perform highly parallelized computations on Navy supercomputer systems, process and analyze extensive oceanographic and atmospheric datasets, develop and implement variational data assimilation systems, and participate in the creation of a comprehensive global coupled ocean model. These long-term projects are generating cutting edge capabilities that will ultimately be incorporated into forecasts produced by Navy operational centers for the deployed fleet.

Candidates are encouraged to apply with expertise in one or more areas of oceanography, ocean modeling, wave modeling, ice modeling, coastal modeling, computational fluid dynamics, ensemble systems, HPC, MPI, applied mathematics, meteorology, physics, data analysis, numerical analysis, data assimilation, meteorology, and satellite and in situ data processing.

This is an excellent opportunity to work with some of the best modelers and data analysts in the ocean community. The Naval Research Laboratory has access to the major supercomputer sites in addition to excellent local computer resources. The laboratory at Stennis Space Center is collocated with the Naval Oceanographic Office and Fleet Numerical Meteorology and Oceanography Center, which are the largest national operational forecast centers for oceanography.

For a quick overview of some of the research publications within the NRL Ocean Dynamics and Prediction Branch at Stennis Space Center and systems transitioned to operations, 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:

Mark Orzech
NRL Code 7322
Stennis Space Center, MS 39529

via e-mail: mark.orzech@nrlssc.navy.mil



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
