U.S. NAVAL RESEARCH LABORATORY

# Ocean Dynamics and Prediction Branch

## Ocean Data Assimilation and Probabilistic Prediction Section

The Naval Research Laboratory has openings for post-doctorate researchers to advance capabilities in ocean data assimilation and probabilistic forecasting. This includes optimization of underwater, airborne and satellite observing systems, representation of ocean processes affecting temperature, salinity, and mixed-layer depth, and ensemble and probabilistic ocean forecasting. High priority efforts presently include automated observation targeting, representing probability in ocean/acoustic systems, optimization of reduced order or leveraging machine learning, and forecast correction using satellite-observed ocean state variables and surface heat fluxes. This long term work is developing cutting edge capabilities that transition to operational forecast centers.

This challenging work requires a broad understanding of physical oceanography and numerical modelling. 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, 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 center 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:

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## 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**