



Ocean Dynamics and Prediction Branch

Constraining and predicting smaller-scale ocean features

The Naval Research Laboratory has openings for post-doctorate researchers to advance capabilities in ocean data assimilation and probabilistic forecasting. This includes the use of data assimilation to correctly place relatively small-scale features in the correct position & time and use that initial condition to accurately predict their movement through time using a numerical model. These objectives will be met using cutting-edge ocean instrumentation, including space-based radar. The bleeding-edge instruments provide impetus for making upgrades to current Navy data assimilation and numerical models. Therefore, basic and applied research will be carried out so that Navy environmental prediction systems take full advantage of all available ocean observations.

Candidates are encouraged to apply with expertise in one or more areas of oceanography, ocean 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 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=atCgUG8AAAAI>

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.

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Cleared for public release
