



# Ocean Dynamics and Prediction

## High Latitude Ocean Dynamics and Modeling

The Naval Research Laboratory has openings for post-doctorate researchers to advance our understanding and modeling capability of high latitude ocean dynamics. In recent decades, the source of deep-water formation in the North Atlantic and Arctic Oceans supporting the large-scale ocean thermohaline circulation has shifted. Post-doctorate researchers will help with determining the physical mechanisms that are causing this to happen. This includes working with very high-resolution ocean models (both hydrostatic and non-hydrostatic), coupling ice and ocean dynamics, and modeling air-sea interactions. This long-term work will increase our knowledge of high latitude ocean dynamics and develop innovative capabilities that transition to operational forecast centers.

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

### NRL is an Equal Opportunity Employer

For a quick overview of some of the research publications within the NRL Ocean Sciences division 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 resident at time of application. NRL is an equal opportunity employer. Send resume and references to:

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