High Resolution Coastal and Nearshore Modeling

The Naval Research Laboratory has an opening for a post-doctorate researcher in coastal hydro/morphodynamics, focusing on the high-resolution modeling of the coastal environment. Postdocs working on this project will have the ability to focus on a number of areas: (1) performing and analyzing very high-resolution (5 -10 m horizontal) coupled wave-ocean model in the coastal and nearshore domains; (2) developing techniques to evaluate and analyze the local impacts on waves and currents due to the surrounding ocean environment; (3) investigating and characterizing the effects of wave non-linearity and wave breaking on the nearshore circulation; and (4) analyzing and utilizing remote sensing and in situ observations of the nearshore environment.

This challenging work requires a broad understanding of physical oceanography, coastal and nearshore hydrodynamics and numerical modelling. Candidates are encouraged to apply with expertise in one or more areas of oceanography, ocean modeling, HPC, applied mathematics, physics, data analysis, numerical analysis, and in situ data processing. Proficiency in Python/Fortran is desirable.

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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Stennis Space Center, MS 39529

via e-mail: jay.veeramony@nrlssc.navy.mil

MINIMUM REQUIREMENTS

Security clearance is not required, but applicants must be eligible to obtain and maintain 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