



# Postdoctoral Position: Predicting Hazardous Weather Conditions Using Modern Machine Learning Techniques

The Atmospheric Properties and Effects section of the Naval Research Laboratory's Marine Meteorology Division (NRL-MMD) is searching for a Postdoctoral researcher, specializing in processing of scientific data, with a focus toward using modern machine learning techniques. The appointment is for one year beginning Fall 2018, with potential for extension.

## RESEARCH FOCUS

- 1) Combine weather satellite and model data in order to improve the representation of clouds and other weather conditions hazardous to U.S. Navy operations.
- 2) Explore modern machine learning and statistical analysis techniques to discover the best possible environmental characterization using large, diverse datasets.
- 3) Apply existing forecast skill metrics to novel prediction systems, and design novel metrics to assist with forecast system development.

## MINIMUM REQUIREMENTS

- ✓ Ability to obtain and maintain a DoD Security Clearance.
- ✓ PhD in Atmospheric or Computer Science (or related scientific discipline)
- ✓ Experience with computer programming
- ✓ Knowledge of statistical analysis methods and/or modern machine learning techniques

## HOW TO APPLY

If interested or for more information please e-mail:  
[satellite-team@nrlmry.navy.mil](mailto:satellite-team@nrlmry.navy.mil)

## JOB BENEFITS

NRL recruits post-doctoral researchers through the prestigious National Research Council and American Society for Engineering Education post-doctoral programs. These programs offer highly competitive pay and generous benefits.

<http://sites.nationalacademies.org/PGA/RAP/index.htm>  
<https://nrl.asee.org/>