



Mesoscale Meteorology Post-Doctoral Position Announcement

Location: La Jolla, California, USA

To apply: Please send CV, cover letter, brief statement of research interest, and names and contact information for three references to Dr. Nina Oakley (noakley@ucsd.edu)

Deadline: Position is available immediately. Preference will be given to applications received by **October 1, 2020** but applicants will be considered until the position is filled.

This postdoctoral scientist will contribute to research on understanding the mechanisms for high-intensity precipitation in the Western U.S. during winter storms with particular focus on frontally-forced convection and orographic convection. The candidate's primary responsibility will be evaluating the performance of research and operational numerical weather prediction systems in representing these mechanisms and their ability to provide actionable information on related hazards. The successful candidate will also have the opportunity to define their own original sub-project goals aligned with the overall project goals in collaboration with investigators at CW3E. Ideally, the candidate would also have the skill set to contribute to ongoing high-resolution forecasting model development at CW3E, which includes both deterministic and ensemble capabilities. This position offers opportunities to work with and develop applications to support operational entities in meteorology, water resources management, and flood management.

A PhD in meteorology, atmospheric science, or a related field is required. All candidates should be near completion of their PhD (estimated within three months) or have no more than two years of post-doc experience. Candidates should be self-motivated and hard-working. Excellent written and verbal communication skills, including the ability to produce scientific publications and presentations and meet project milestones are required. Successful applicants should be comfortable working independently with large code libraries and databases, utilizing large meteorological data sets, and producing effective visualizations. Experience in the area of mesoscale meteorology, especially with regards to precipitation extremes, is desirable. The ideal candidate will also have experience working with output from and conducting simulations with WRF, MPAS, or another mesoscale model.

The Center for Western Weather and Water Extremes, (CW3E; cw3e.ucsd.edu) is a research and applications center established in 2014 at the Scripps Institution of Oceanography (SIO) by its Director, Dr. F. Martin Ralph. CW3E focuses on the physical understanding, observations, weather predictions of extreme weather and water events to support effective policies and practices to improve resilience in the Western U.S. CW3E carries out its goals with a diverse network of research and operational partners at more than ten other institutions across the U.S. Individuals will be joining a group of several existing postdoctoral scholars and graduate students, and a number of experienced faculty, researchers, and staff at SIO who are involved with CW3E. CW3E strives to increase diversity in the geosciences and practices the UC San Diego's Principles of Community (<https://ucsd.edu/about/principles.html>).

The University of California, San Diego is an affirmative action and equal opportunity employer.



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