



SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF EARTH SYSTEM SCIENCE
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Postdoctoral Research Associate Positions

Mike Pritchard's Group
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I am looking for Post-doctoral Research Associates interested in using new multi-scale atmospheric simulation techniques (cloud superparameterization) to better understand the basic dynamics, intrinsic predictability, and climate sensitivity of (1) convectively coupled modes of atmospheric variability (such as the Madden-Julian Oscillation and Central US summertime mesoscale convective systems) and (2) land-atmosphere hydrologic coupling.

The term of appointment is for one year, renewable for at least a second year, subject to approval and availability of funding. Positions are not entirely project specific, but applicants who can demonstrate research relevance to the above topics are preferred. Start dates are flexible and could begin as early as July 2014. It is expected that two positions will be available.

Computational fluency in Fortran90 and standard UNIX scripting languages is preferred. Applicants who already have or are eager to grow any of the following technical skills are especially encouraged:

- Understanding of (and ability to modify) physical parameterizations in the NCAR Community Atmosphere Model (CAM) and Community Land Model (CLM).
- Applying an atmospheric model in weather prediction mode initialized using data assimilation (e.g. with the CAM-Data Assimilation Research Testbed).
- High performance software engineering, such as GPU acceleration or petascale optimization of massively parallel MPI/OpenMP code.

The Department of Earth System Science at UCI is a highly interdisciplinary environment with faculty expertise in many components of the Earth System, including modeling atmospheric physics and terrestrial hydrology. Living in Irvine means enjoying Southern California sunshine, a cap-and-trade carbon economy, and nearby Laguna & Newport Beaches (for surfing), Los Angeles (for hipster culture), and Palm Springs / Joshua Tree (for desert solace).

Please submit electronically: (1) a curriculum vitae, (2) a publication list, (3) a brief cover letter (no more than 1 page) describing research interests, and (4) the names of four individuals who can provide a letter of reference. Applications should be received prior to June 15, 2014 and can be sent directly to me at mspritch@uci.edu.

Thanks,

Mike Pritchard.