Postdoctoral Research Staff Member - Cloud Processes Research and Modeling

Location: Livermore, CA
Category: Post Docs
Organization: Physical and Life Sciences
Posting Requirement: External Posting
Job ID: 104267
Job Code: Post-Dr Research Staff 1 (PDS.1)
Date Posted: September 27 2018

Science and Technology on a Mission!
For more than 60 years, the Lawrence Livermore National Laboratory (LLNL) has applied science and technology to make the world a safer place.

We have an opening for a Postdoctoral Researcher to evaluate the newly revitalized atmospheric single column model (SCM) in the Energy-Exascale Earth System Model (E3SM). You will explore the applicability of the SCM for general circulation model (GCM) development and use the SCM in conjunction with observational datasets to understand E3SM cloud biases. This position is in the Cloud Processes Research group in the Atmospheric, Earth, and Energy Division.

Essential Duties
- Perform single column model (SCM) and general circulation model (GCM) simulations with the E3SM model.
- Use statistical analysis to understand model biases and SCM/GCM differences.
- Explore code modifications to reduce identified model biases.
- Identify conditions where SCM and GCM sensitivity differs and develop techniques for improving SCM agreement.
- Publish research results in internal reports, peer-reviewed scientific or technical journals, and present results at external conferences, seminars and/or technical meetings.
- Pursue independent (but complementary) research interests and interact with a broad spectrum of scientist internally and externally to the Laboratory.
- Perform other duties as assigned.

Qualifications
- Recent PhD in atmospheric science or closely related field.
- Experience conducting research in atmospheric science or closely related field.
- Experience in atmospheric GCM development and/or analysis.
- Experience in cloud process research and/or convection parameterization.
- Experience with running and analyzing atmospheric numerical models.
- Proficient verbal and written communication skills as evidenced by published results and presentations.
- Ability to work effectively in a multi-institutional, multi-disciplinary research environment, both independently and in a team environment with a diverse technical staff.

Pre-Employment Drug Test: External applicant(s) selected for this position will be required to pass a post-offer, pre-employment drug test.

Security Clearance: None required.

Note: This is a two-year Postdoctoral appointment with the possibility of extension to a maximum of three years. Eligible candidates are recent PhDs within five years of the month of the degree award at time of hire date.

About Us

Lawrence Livermore National Laboratory (LLNL), located in the San Francisco Bay Area (East Bay), is a premier applied science laboratory that is part of the National Nuclear Security Administration (NNSA) within the Department of Energy (DOE). LLNL's mission is strengthening national security by developing and applying cutting-edge science, technology, and engineering that respond with vision, quality, integrity, and technical excellence to scientific issues of national importance. The Laboratory has a current annual budget of about $1.8 billion, employing approximately 6,500 employees.

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