

Boundary-Layer Meteorology Experimentalist - Postdoctoral Researcher

Location: [Livermore, CA](#)

Category: [Post Docs](#)

Organization: [Physical and Life Sciences](#)

Posting Requirement: [External Posting](#)

Job ID: 107166

Job Code: Post-Dr Research Staff 1 (PDS.1)

Date Posted: May 27 2020

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Come join Lawrence Livermore National Laboratory (LLNL) where we apply science and technology to make the world a safer place; now one of **2020 Best Places to Work by Glassdoor!**

We have an opening for a Postdoctoral Researcher to conduct research using observations of boundary-layer meteorology for a variety of applications: quantifying wind turbine-atmosphere interactions, studying wind flow over complex terrain (e.g., katabatic/anabatic winds), atmospheric stability, surface carbon and energy flux exchanges, and other boundary layer processes for national security applications. You will work with a multi-disciplinary team of scientists, including atmospheric modelers, operate and deploy LLNL's suite of in situ and remote sensing instrumentation in the field (e.g., profiling lidars, scanning lidar, energy flux towers), and independently analyze complex observational datasets to answer key boundary-layer meteorology science questions. This position is in the Atmospheric Flow, Transport and Hazard Assessment Group of the Atmospheric, Earth and Energy Division (AEED).

Essential Duties

- Conduct research in and development of one or more of the following areas: boundary-layer meteorology, surface flux exchange processes, remote sensing and flux tower instrumentation.
- Design, implement, and analyze techniques in one or more of the above areas.
- Organize, analyze, and present data from research.
- Contribute to and actively participate in the conception, design, and execution of field campaigns to obtain observational datasets of boundary-layer meteorology processes (flow over complex terrain, atmospheric stability, surface-atmosphere exchange, planetary boundary layer height) for national security applications. Analyze observations to answer fundamental scientific questions.
- Document research by publishing papers in peer-reviewed journals and present technical findings at scientific conferences.

- Pursue independent (but complementary) research interests and interact with a broad spectrum of scientists internally and externally to the Laboratory.
- Collaborate with others in a multidisciplinary team environment to accomplish research goals.
- Perform other duties as assigned.

Qualifications

- Recent PhD in atmospheric science, meteorology, environmental engineering, or a closely related field
- Experience with one or more of the following areas: boundary-layer meteorology, atmospheric stability and turbulence, meteorological instrumentation, independent data analysis of complex meteorological datasets, fieldwork
- Ability to communicate science with atmospheric modelers
- Willingness to travel and work outside in remote locations during field campaigns
- Ability as an innovative experimentalist with a broad range of experience in experimental design, techniques, and execution.
- Ability to develop independent research projects as demonstrated through publication of peer-reviewed literature.
- Proficient verbal and written communication skills to collaborate effectively in a team environment and present and explain technical information.
- Initiative and interpersonal skills and ability to work in a collaborative, multidisciplinary team environment.

Desired Qualifications

- Experience with lidars or other remote sensing techniques and surface flux tower instruments, and analysis of those datasets
- Experience with designing field experiments, statistical analysis, and programming languages including Fortran, Python, MATLAB
- Interest in learning skills in atmospheric modeling (e.g., Weather Research and Forecasting Model)

Pre-Employment Drug Test: External applicant(s) selected for this position will be required to pass a post-offer, pre-employment drug test. This includes testing for use of marijuana as Federal Law applies to us as a Federal Contractor.

Security Clearance: None required.

However, if your assignment is longer than 179 days cumulatively within a calendar year, you must go through the Personal Identity Verification process. This process includes completing an online background investigation form and receiving approval of the background check. (This process does not apply to foreign nationals.)

Note: This is a 2 year Postdoctoral appointment with the possibility of extension to a maximum of 3 years. Eligible candidates are those who have been awarded a PhD 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 \$2.3 billion, employing approximately 6,900 employees.

LLNL is an affirmative action/ equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, marital status, national origin, ancestry, sex, sexual orientation, gender identity, disability, medical condition, protected veteran status, age, citizenship, or any other characteristic protected by law.

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