



659481 Atmospheric Sciences Postdoctoral Appointee

*Sandia National Laboratories
Albuquerque, NM*

We would like to invite you to visit our careers site to complete your application.

DIRECTIONS:

1. Select the [link](#) to access our careers site.
2. Sign In to access your account or if you are not an existing user select the New User link to create one.
3. Review the job description and select the Apply button to begin your application.

Qualifications We Require

PhD in Atmospheric Science, Earth Sciences, Civil and Environmental Engineering, Physics, Applied Mathematics, or related discipline;

- Experience in analysis and/or modeling of at least one of the following:
 - Experience using atmospheric models;
 - Experience with dust aerosols;
 - Familiarity with high performance computing environment including Linux/Unix;
 - Experience with computer languages usually used for atmospheric modeling and analysis (Fortran, Python, R, NCL, Matlab, IDL, etc.).

Qualifications We Desire

- Excellent written and oral communication skills;
- Ability to work collaboratively in interdisciplinary teams;
- Interest in contributing to an active intellectual environment;
- Experience using atmospheric models.

Position Information

This postdoctoral position is a temporary position for up to one year, which may be renewed at Sandia's discretion up to five additional years. The PhD must have been conferred within five years prior to employment. Individuals in postdoctoral positions may bid on regular Sandia positions as internal candidates, and in some cases may be converted to regular career positions during their term if warranted by ongoing operational needs, continuing availability of funds, and satisfactory job performance.

About Our Team

The staff in the Atmospheric Sciences Department (8863) at Sandia National Labs have expertise in atmospheric measurements and modeling. Technical activities cover the spectrum from theory to application, including algorithm development, computer modeling, data inversion, instrumentation and measurement systems development, field demonstration, field campaign execution, and field site management. Particular expertise exists in the measurement and modeling of atmospheric processes in the Arctic including the use of unmanned aerial vehicles such as small fixed wing and rotary aircraft and tethered balloons, as well as the use and cold hardening of measurement systems such as radar and lidar. The department serves as a Laboratories resource for atmospheric sensing expertise.



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About Sandia

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation, with teams of specialists focused on cutting-edge work in a broad array of areas. Some of the main reasons we love our jobs:

- Challenging work with amazing impact that contributes to security, peace, and freedom worldwide
- Extraordinary co-workers
- Some of the best tools, equipment, and research facilities in the world
- Career advancement and enrichment opportunities
- Flexible schedules, generous vacations, strong medical and other benefits, competitive 401k, learning opportunities, relocation assistance and amenities aimed at creating a solid work/life balance*

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*These benefits vary by job classification.

Security Clearance

This position does not currently require a Department of Energy (DOE)-granted security clearance.

Sandia will conduct a pre-employment drug testing, and a pre-employment background review that includes personal reference checks, law enforcement record checks, and employment and education verifications. Further, employees in New Mexico must pass a U.S. Air Force background screen for access to the work site. Substance abuse or illegal drug use, falsification of information, criminal activity, serious misconduct or other indicators of untrustworthiness can cause access to be denied or terminated, rendering the inability to perform the duties assigned and resulting in termination of employment.

If hired without a clearance, and one subsequently becomes required or you bid on positions that require a DOE-granted security clearance, a pre-processing background review that includes personal reference checks, law enforcement record and credit checks, and employment and education verifications may be conducted prior to a required federal background investigation. Applicants for DOE-granted security clearances must be U.S. citizens and be able to obtain and maintain the appropriate DOE security clearance as required for the position.

EEO

Equal opportunity employer/Disability/Vet/GLBT

What Your Job Will Be Like

The Atmospheric Sciences Department is seeking a postdoctoral research associate to work on projects related to global earth system models and global climate models for researching dust aerosols. We are interested in developing and using these models to improve our understanding of atmospheric process of ice nucleation on dust as it relates to laboratory measurements.

On any given day, you may be called on to:

- Work to improve the representation of ice nucleation on dust aerosols in highly complex climate models that are typically employed at the Department of Energy's Leadership Class supercomputing facilities;
- Seek opportunities to expand your research portfolio in a wide variety of applications that include, but are not limited to, earth system modeling, regional climate modeling, and uncertainty quantification;
- Work under the supervision of one or more research staff and collaborate with other researchers at Sandia, other national laboratories, and in academia.



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