

# High Energy Astrophysics Postdoc

[Apply Now](#)

**Company:** Los Alamos National Laboratory

**Location** Los Alamos, NM

**Date Posted:** October 6, 2015

**Source:** Los Alamos National Laboratory

## \_What You Will Do\_

P-23 is searching for a postdoctoral scientist to work on the analysis and interpretation of data from the High Altitude Water Cherenkov (HAWC) TeV gamma-ray observatory. The construction of HAWC was recently completed and HAWC is currently recording over 1 TByte of data per day. The successful candidate will contribute to LANL efforts on HAWC. LANL is responsible for the maintenance and operation of the front-end electronics and is a major contributor to the calibration system as well as the development of new reconstruction and analysis algorithms. The science objectives of HAWC are many, and LANL scientists are working on understanding particle acceleration in astrophysical sources as well as searching for evidence of new fundamental physics, such as the indirect detection of dark matter. HAWC is located in central Mexico at ~14000' elevation. Although the detector is remotely operable, occasional travel to the HAWC site is likely.

\*\*\_What You Need\_\*\*\*\*

\*\*Minimum Job Requirements:\*\*\*\*

- \* PhD in astrophysics or particle physics
- \* Experience with analysis of data from high energy particle or astro physics detectors.
- \* Demonstrated ability to communicate in English both technically and interpersonally both orally and in writing.
- \* Demonstrated ability to carry out independent and collaborative research.

\*\*Desired Skills:\*\*

- \* Knowledge of the physics of high energy astrophysical sources
- \* Experience with statistical analysis of large data sets
- \* Strong publishing record
- \* Advanced proficiency in software tools and programming languages commonly associated with nuclear/particle physics experiments

\*\*Education: \*\*

Ph.D. in astrophysics or particle physics completed within the last five years is required at or near the time of hiring.\*\*

\*\*Notes to Applicants:

For further technical information, please contact Dr. Brenda Dingus (dingus@lanl.gov or 505-667-0400).

Please submit a cover letter addressing how you meet the required and desired skills, a CV including a list of peer-reviewed publications and talks, and the names of 3 references. A current C.V. with the following categories is preferred: Educational background, degree dates, GPA with scale; Experience; Competitive honors; Relevant extracurricular activities; Invited presentations; Grants; Patents; Publications.

\*\*Additional Details:\*\*

\*\*No Clearance: \*\*Position does not require a security clearance. Selected candidates will be subject to drug testing and other pre-employment background checks.

\*\*Pre-Employment Drug Test:\*\* The Laboratory requires successful applicants to complete a pre-employment drug test and maintains a substance abuse policy that includes random drug testing.

Candidates may be considered for a Director's Fellowship and outstanding candidates may be considered for the prestigious Marie Curie, Richard P. Feynman, J. Robert Oppenheimer, or Frederick Reines Fellowships.

For general program information refer to the Postdoc Program web page <http://www.lanl.gov...>

\*\*Equal Opportunity:\*\*

Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regards to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to [applyhelp@lanl.gov](mailto:applyhelp@lanl.gov) or call 1-505-665-4444 option 1.

## Where You Will Work

\*\*Located in northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf

of national security. LANL enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

\*Location:\* Los Alamos, NM, US

\*Organization Name:\* P-23/Neutron Science & Technology

\*Job Title:\* High Energy Astrophysics Postdoc