

Job Title Operations Physicist (Scientist 3)
Location Los Alamos, NM, US
Organization Name AOT-OPS / Accelerator Operations

What You Will Do

The Operations Physics Team supports the Accelerator Operations and Technology (AOT) Division, within the Accelerator Operations Group (AOT-OPS) and is responsible for understanding and optimizing the physics performance of the accelerator and experimental beam lines at the Los Alamos Neutron Science Center (LANSCE). Principal responsibilities will include:

- Optimize beam tunes that match the needs of the experimental programs, generate innovative ideas for accelerator development and operation, and solve complex problems related to the accelerator systems.
- Provide accelerator physics guidance and support during facility Start Up periods and tune recovery periods.
- Provide physics support for experimental and operational equipment design and installation and perform physics studies and unique beam development activities to optimize future operations.
- Serve as a technical expert and work with a small, experienced team to provide physics support for operation of the LANSCE accelerator and beam delivery complex.
- Perform additional assigned duties which may include involvement in multi-group facility upgrade and improvement projects, providing training for operators, calculating beam transport properties of unique accelerator elements, layout work for new beam transport systems, development of operating procedures for tune-up of the accelerator and associated beam delivery systems, and providing diagnostic support for beam lines in collaboration with staff from other AOT Groups.

What You Need

Minimum Job Requirements:

- Thorough understanding of accelerator and particle-beam physics or substantial experience conducting accelerator-based experiments.
- Demonstrated ability to work with a team of scientists, engineers, technicians, and administrators.
- Demonstrated ability to solve complex problems requiring frequent use of creativity and ingenuity while involved in multiple projects having various priorities with the ability to communicate effectively, both orally and in writing.
- Thorough knowledge and experience with at least several of the following: principles of accelerator physics, particle-beam transport design, particle beam physics, particle beam instrumentation, RF systems, software development/modeling for scientific applications, particle detector development.
- Thorough knowledge and experience providing technical direction to

technologists, technicians, operators, and junior scientists.

- Work flexible hours and hours in excess of 40 hrs per week, including assigned on-call duties to provide support for 24-hour operations of the facility.

Desired Skills:

- Experience in the operations of a complex accelerator facility desired.
- Research results of work with accelerators, as indicated by peer-reviewed publications and conference proceedings, are highly desirable.
- Project management experience including schedule development, cost estimates, and project status updates.

Educations: Ph.D. or equivalent experience in physical sciences, engineering or related field.

Essential Job Functions: Reading vision, ability to speak, ability to discriminate speech, climbing stairs, climbing ladders, Typing or keyboarding, fine motor control.

Notes to Applicants: For full consideration, applicants must submit a comprehensive cover letter that addresses each of the key requirements of the position.

Additional Details:

Clearance: Q (Position will be cleared to this level). Applicants selected will be subject to a Federal background investigation and must meet eligibility requirements* for access to classified matter.

*Eligibility requirements: To obtain a clearance, an individual must be at least 18 years of age; U.S. citizenship is required except in very limited circumstances. See [DOE Order 472.2](#) for additional information.

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

Regular position: Term status Laboratory employees applying for regular-status positions are converted to a regular status only with approval of the cognizant Principal Associate Director.

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 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.

Appointment Type	Regular Regular
Minimum Salary	94500
Maximum Salary	157800

Contact Details

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