

## **Fire Protection System Engineer (Nuclear Facilities Engineer 1/2)**

**Req. Number:** IRC133674 **Organization :** PFE-AUX/AUXILIARY SYSTEMS

[https://lanl.jobs/Search/JobDetails/fire-protection-system-engineer-nuclear-facilities-engineer-12/c9615107-6c6d-4d80-b932-11dfa6ebaf85?utm\\_campaign=ss\\_email](https://lanl.jobs/Search/JobDetails/fire-protection-system-engineer-nuclear-facilities-engineer-12/c9615107-6c6d-4d80-b932-11dfa6ebaf85?utm_campaign=ss_email)

### **What You Will Do**

**This position will be filled at either the Nuclear Facilities Engineer 1 or 2 level, depending on the skills of the selected candidate. Additional job responsibilities (outlined below) will be assigned if the candidate is hired at the higher level.**

Put your engineering talents to good use by joining our world-class Engineering team!

Los Alamos National Laboratory is looking for exceptional Engineers to join our organization. Our diverse workforce enjoys a work environment focused on creative problem solving, where everyone's opinions and ideas are considered. This is your chance to make a real difference while working on important systems directly impacting national security.

The nuclear facility engineering role supports the LANL nuclear mission by effectively and efficiently implementing nuclear facility engineering regulatory requirements including the Nuclear Safety Management Rule, DOE Orders, American Nuclear Society Standards, national consensus codes and standards, recognized quality standards, Laboratory requirements, and federal, state, and local regulations. Nuclear facility engineers perform system engineering, design engineering, project engineering, safety basis and nuclear criticality functions at LANL and Nevada nuclear facilities. Nuclear facility engineers define requirements for nuclear facilities, nuclear safety systems, nuclear operations equipment, nuclear operations procedures, nuclear test and acceptance requirements and nuclear quality requirements. Nuclear facility engineers integrate with programmatic, operations, maintenance, document control, project management personnel to ensure nuclear facility requirements are met in a way that allows accomplishment of LANL mission. Identifies and/or leads activities within a nuclear facility engineering discipline. Must be able to work independently and as part of a team. Applies broad and diversified knowledge of nuclear facility engineering principles and practices in the preparation of nuclear facility engineering deliverables. Utilizes nuclear engineering technology to accomplish work and continuously improves work processes to meet customer needs.

The candidate can either be a qualified Fire Protection Engineer or another engineering discipline (such as a Mechanical Engineer) with a demonstrated willingness and ability to support Fire Protection systems.

### **Nuclear Facilities Engineer 1 (\$92,300 - \$151,000)**

The nuclear facility engineering role supports the LANL nuclear mission by effectively and efficiently implementing nuclear facility engineering regulatory requirements including the Nuclear Safety Management Rule, DOE Orders and Standards, American Nuclear Society Standards, National Fire Protection Association Standards, other national consensus codes and standards, quality standards, Laboratory requirements, and federal, state, and local regulations.

## **Nuclear Facilities Engineer 2 (\$101,700 -\$168,200)**

In addition to the above, nuclear facility engineers 2 integrate with programmatic, operations, maintenance, document control, project management personnel to ensure nuclear facility requirements are met in a way that allows accomplishment of LANL mission. Identifies and/or leads activities within a nuclear facility engineering discipline. Utilizes nuclear engineering technology to accomplish work and continuously improves work processes to meet customer needs.

### **What You Need**

#### **Minimum Job Requirements:**

- Knowledge of analysis and calculations techniques to support engineered solutions.
- Ability to effectively communicate engineering solutions both verbally and written with management, customers, peers, and maintenance personnel.
- Working knowledge of Microsoft software products (i.e. Word, Excel, Microsoft Teams, Outlook, etc.)

#### **Additional Job Requirements for Nuclear Facilities Engineer 2:**

**In addition to the requirements outlined above, qualification at the higher level requires:**

- Demonstrated experience with major commercial, industrial, or nuclear facility fire protection systems (i.e. Fire Alarm, Fire Suppression, Specialty fire suppression systems, passive fire systems (fire barriers), inertion systems, and/or public address systems.
- Demonstrated experience with engineering design process and/or maintenance of fire protection systems.
- Demonstrated experience with fire modeling software and its application.
- Demonstrated experience with codes and standards, to include but not limited to the IBC, IEBC, NFPA, IFC, and/or UFC.

**Education/Experience for NFE 1:** Position requires a Bachelor's Degree in Engineering from an ABET-accredited college or university and 2 years of practical work experience necessary to perform the responsibilities outlined above. Advanced engineering or technical degree is highly desired. Current registration as a Engineer in Training (EIT) is highly desirable.

**Education/Experience for NFE 2:** Position requires a Bachelor's Degree in Engineering from an ABET-accredited college or university and 2 years of practical work experience necessary to perform the responsibilities outlined above. Advanced engineering or technical degree is highly desired. Current registration as a Engineer in Training (EIT) is highly desirable.

**This position may be subject to 426.2A, Personnel Selection, Training, and Qualification Requirements for DOE Nuclear Facilities. The DOE Order establishes entry-level**

**requirements to ensure employees in the positions can successfully perform the requirements of the job.**

**Desired Qualifications:**

- Knowledge of fire protection Codes and Standards (such as NFPA 1, NFPA 13, NFPA 22, NFPA 24, NFPA 25, NFPA 70 (NEC), NFPA 72, etc.).
- Knowledge of DOE Orders and Standards.
- Knowledge of the engineering design process.
- Knowledge of facility / systems engineering processes.
- Knowledge of design development and execution processes.
- Strong electrical and/or mechanical understanding with demonstrated relevance to fire protection systems.

**Work Location:** The work location for this position is onsite and located in Los Alamos, NM. All work locations are at the discretion of management.

**Where You Will Work**

Located in beautiful northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. Our generous benefits package includes:

- PPO or High Deductible medical insurance with the same large nationwide network
- Dental and vision insurance
- Free basic life and disability insurance
- Paid maternity and parental leave
- Award-winning 401(k) (6% matching plus 3.5% annually)
- Learning opportunities and tuition assistance
- Flexible schedules and time off (PTO and holidays)
- Onsite gyms and wellness programs
- Extensive relocation packages (outside a 50 mile radius)

**Additional Details**

**Directive 206.2** - Employment with Triad requires a favorable decision by NNSA indicating employee is suitable under NNSA Supplemental [Directive 206.2](#). Please note that this requirement applies only to citizens of the United States. Foreign nationals are subject to a similar requirement under DOE Order 142.3A.

**Clearance: Q** (Position will be cleared to this level). Selected applicants will be subject to a background investigation conducted by or on behalf of the Federal Government, and must meet eligibility requirements\* for access to classified matter. This position requires a Q clearance. and obtaining such clearance requires US Citizenship except in extremely rare circumstances.

Dependent upon the position, additional authorization to access classified information may be required, which may or may not be available to dual citizens. Receipt of a Q clearance and additional access authorization ultimately is a decision of the Federal Government and not of Triad.

\*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.

**HRP:** This position is subject to the requirements of the DOE Human Reliability Program as specified in 10 Code of Federal Regulation, Part 712, §712.11. These requirements include on going drug and alcohol testing, as well as periodic medical and psychological evaluations.

**426.2:** This position is subject to DOE Order 426.2, Personnel Selection, Training, and Qualification Requirements for DOE Nuclear Facilities, which establishes entry-level requirements to ensure candidates selected for specific positions can successfully perform the requirements of the job.

**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. Although New Mexico and other states have legalized the use of marijuana, use and possession of marijuana remain illegal under federal law. A positive drug test for marijuana will result in termination of employment, even if the use was pre-offer.

**Regular position:** Term status Laboratory employees applying for regular-status positions are converted to regular status.

**Internal Applicants:** Regular appointment employees who have served the required period of continuous service in their current position are eligible to apply for posted jobs throughout the Laboratory. If an employee has not served the required period of continuous service, they may only apply for Laboratory jobs with the documented approval of their Division Leader. Please refer to Policy [Policy P701](#) for applicant eligibility requirements.

**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 regard to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation, 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 1-505-664-6947 option 2 and then option 3.