

## Internal Careers at LLNL



### Fire Protection Engineer

**Location:** [Livermore, CA](#)

**Category:** [Technical Services & Ops](#)

**Organization:** Facilities and Infrastructure

**Posting Requirement:** External w/ US Citizenship

**Job ID:** 101981

**Job Code:** Technical Services & Ops MTS 2 (TSS.2) / Technical Services & Ops MTS 3 (TSS.3)

**Date Posted:** February 24 2017

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#### *Science and Technology on a Mission!*

For more than 60 years, the Lawrence Livermore National Laboratory (LLNL) has applied science and technology to make the world a safer place.

We have an opening for a Fire Protection Engineer. You will be responsible for performing activities associated with fire protection engineering and design support to the Laboratory's Fire Protection Program and to Laboratory program facilities. This position is in the Emergency Management Department, Fire Protection Division.

This position will be filled at either the TSS.2 or TSS.3 level depending on your qualifications. Additional job responsibilities (outlined below) will be assigned if you are selected at the higher level.

#### Essential Duties

- Specify, review, and approve criteria for fire protection systems in new facilities and those undergoing modifications.
- Perform fire protection inspections, appraisals and fire hazards analysis of facilities; analyze operations, resolve moderately complex problems, and provide solutions to ensure fire protection and life safety; evaluate facility and experimental design and installation for adequacy of fire protection, utilize and apply the National Fire Protection Association (NFPA) Life Safety Code, Fire Prevention Code, and applicable Standards to analyze and determine adequacy of Fire Protection and Life Safety Systems,

#### Related Jobs

- [Hydrogeologist \(102058\)](#)
- [Construction Management Division Leader \(102044\)](#)
- [Electric Utility Power System Engineer \(101998\)](#)
- [Design Managers \(101949\)](#)
- [Civil Engineer 3/4 \(101948\)](#)

including but not limited to compliance with applicable codes and standards.

- Conduct fire investigations for fire protection system malfunctions, analyze incidents to determine the root cause and recommend appropriate action to be taken for future prevention, and conduct job walks in program facilities on a regular basis to ensure implementation of fire protection principles.
- Observe construction contract fire protection system testing, analyze results, and provide guidance to the Fire Marshal for system acceptance.
- Develop written technical reports and procedures, participate in design reviews involving facility construction and commissioning activities, provide information to management and provide solutions to moderately complex technical problems, including analysis and review of technical reports related to facility design and fire protection adequacy.
- Interact with all levels of personnel internal and external to the Laboratory, including customers and clients, resource managers, program and facility managers, construction supervisors, technicians, senior management, program scientists and engineers in the preparation and review of Facility Safety Procedures, Operational Safety Procedures, Safety Analysis Reports, Design Reviews, Emergency Plans, Fire Protection Discipline Action Plans, and operational fire safety issues.
- Perform all assignments and operations in accordance with ES&H, security, quality standards, Life Safety Codes and Standards, Department of Energy regulatory compliance, and Laboratory business practice policies and procedures.
- Perform other duties as assigned.

**In Addition, at the TSS.3 Level**

- Represent the Fire Protection Program, mentor and lead other technical staff in the application of the NFPA Life Safety Code, Fire Prevention Code, and applicable Standards.
- Develop original solutions to complex technical problems, requiring in-depth analysis, conduct fire protection training to program and building occupants, and provide training to health and safety technicians on fire protection implementation.
- Serve as technical advisor to the Fire Marshal, and provide guidance and support associated with applicable regulations, documents, and policies for operational compliance.

**Qualifications**

- Bachelor's Degree in Fire Protection Engineering, Fire Protection Technology or related field or equivalent combination of education, and related experience.
- Comprehensive knowledge of concepts in fire protection and understanding of associated codes, standards, regulations and practices with special emphasis on the NFPA Life Safety Code and Fire Prevention Code.
- Comprehensive knowledge of automatic sprinkler inspections and testing, and reviewing and analyzing hydraulic calculations.
- Experience and demonstrated ability to evaluate, interpret, recommend and implement solutions to moderately complex fire protection and related fire safety problems.
- Demonstrated analytical, decision making and problem-solving skills with ability to organize and effectively manage technical projects.
- Proficient verbal and written communication skills necessary to effectively collaborate with, and be a strong member of interdisciplinary teams, present and explain technical

information, including ability to work independently on projects and to support program goals.

- Experience with personal computers and related software and proficiency in using Microsoft Word, Excel, and PowerPoint.
- Ability to lift and carry equipment up to 30 lbs. in a safe and controlled manner.

**In Addition, at the TSS.3 Level**

- Significant experience in fire protection and advanced technical knowledge of associated codes, standards, regulations and practices with special emphasis on the NFPA Life Safety Code and Fire Prevention Code.
- Advanced verbal and written communication, and interpersonal and facilitation skills necessary to effectively collaborate and work as a senior member of multi-disciplinary teams, participate in and lead design reviews, prepare and present complex technical data and reports, and provide advice to senior management, regulators, reviewers, stakeholders, and external sponsors.
- Proven ability to lead, prioritize and manage large, complex, high-visibility projects and scope that includes multiple and frequently conflicting and concurrent tasks in support of the Program mission.

**Desired Qualifications**

- Experience in administration of an impairment control program and associated compensatory measures program for fire protection and life safety.
- Experience in highly protected risk insurance engineering as well as formal training in application of the Life Safety Code.
- Registered Fire Protection Engineer.

**Pre-Employment Drug Test:** External applicant(s) selected for this position will be required to pass a post-offer, pre-employment drug test.

**Anticipated Clearance Level:** 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 information or matter. In addition, all L or Q cleared employees are subject to random drug testing. If you hold multiple citizenships (U.S. and another country), you may be required to renounce your non-U.S. citizenship before a DOE L or Q clearance will be processed/granted.

**Note:** This is a Career Indefinite position. Lab employees and external candidates may be considered for this position. Employees assigned to work at Site 300 may be exposed to the organism that causes San Joaquin Valley Fever (coccidioidomycosis).

**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 \$1.5 billion, employing approximately 6,000 employees.

Site 300 is an experimental test site operated by LLNL. Situated on 7,000 acres in rural foothills approximately six miles southwest of downtown Tracy and 15 miles southeast of Livermore, Site 300 hosts approximately 200 employees with expertise in such fields as engineering, chemistry, biology, and environmental restoration.

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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Lawrence Livermore National Laboratory 7000 East Avenue • Livermore, CA 94550

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