

# ORNL Publications

## External Publication

### Job Posting Title

Fire Protection Engineer NB50672255

### Posted Date

06/12/2018

### End Posting Date

07/12/2018

### Purpose

The Engineering Management Division at the Oak Ridge National Laboratory (ORNL) seeks to hire one mid-career Fire Protection Engineer (FPE).

This position will primarily focus on providing fire protection and systems engineering support for the ORNL Non-Reactor Nuclear Facilities Division (NNFD). NNFD manages production, storage, and distribution for the Department of Energy's heavy element research program, producing isotopes which are critical for medical research, scientific discovery, global security, energy, and industry application.

This position is also responsible for assisting in the implementation of all technical aspects of the Fire Protection Program at ORNL. ORNL FPEs are assigned to support research, operations, and facility management activities across the campus and at associated off-site facilities. This includes missions in nuclear facilities, accelerator facilities, supercomputing facilities, and a wide range of other laboratories and structures.

This position supports implementation of ORNL's comprehensive fire prevention/protection program, which is designed to reduce the threat of fire and related perils to life, missions, property, and the environment, while complying with Department of Energy (DOE) requirements.

### Major Duties/Responsibilities

This position will primarily focus on providing fire protection and systems engineering support for facilities/operations managed by ORNL NNFD. This includes:

- Assignment as a fire protection system engineer for NNFD facilities;
- Designation as an FPE point-of-contact for NNFD operations, projects, and missions. This includes support of day-to-day operations, review of work packages, periodic facility walkdowns, and providing FPE consultations to research and development, engineering, maintenance support, construction, etc.;
- Interpreting and assuring compliance with DOE, state, federal, and consensus standards;
- Performing, and/or reviewing, scheduled Fire Protection Engineering Assessments (FPEAs) and/or Fire Hazards Analyses (FHAs) in alignment with the requirements of DOE Order 420.1C;
- Developing project-specific fire protection design criteria and associated specifications, as well as developing and maintaining System Design Descriptions per DOE-STD-3024;
- Performing design reviews of planned construction and building/process modifications;
- Supporting the design, installation, modification, and commissioning efforts for fire- and life safety-related systems/features;
- Interpreting requirements and implementing associated safeguards to mitigate risk associated with the use, handling, and

storage of hazardous materials;

- Supporting ORNL's fire barrier program and chemical inventory management program in assigned facilities;
- Providing technical support for areas of interest beyond traditional fire protection responsibilities (e.g. nuclear safety, occupational safety, etc.).
- Serving on support teams and special projects; and
- Abiding by the Battelle Safe Conduct of Research Principles.

### **Qualifications Required**

Basic Qualifications:

The successful candidate will hold a bachelor's degree in Fire Protection Engineering or Fire Protection Engineering Technology from an ABET/ETAC accredited program. Candidates with a bachelor's degree in another engineering discipline (e.g. B.S. in Mechanical Engineering) and a minimum of two years of documented fire protection engineering experience may also be considered qualified for this position.

The successful candidate will have a minimum of eight years of documented engineering-related experience, with a minimum of one year of experience in nuclear environment(s). Candidates with fewer years of engineering experience may also be considered qualified, depending on the type of experience (e.g. three years of nuclear fire protection-related experience) and/or other credentials (e.g. Professional Engineer license in Fire Protection Engineering).

The ability to acquire and maintain a Department of Energy "Q" security clearance (comparable to DOD Top-Secret) is a requirement.

This position requires passing a pre-placement drug test and participation in an ongoing random drug testing.

This position requires the successful completion of a pre-employment physical.

Preferred Qualifications:

In addition to interpreting and applying prescriptive code requirements, the ideal candidate will possess the ability to develop, propose, and implement defensible risk-based decisions related to fire safety issues.

The ideal candidate will have experience and skill to perform effective Fire Hazard Analyses which properly support nuclear facility Safety Bases. The skill to appropriately apply computer fire modeling (e.g. CFAST, FDS), in support of these analyses, is a plus.

The ideal candidate will understand and be able to apply the principles of the "Highly Protected Risk" concept from DOE Order 420.1C.

The ideal candidate will have good oral communication and technical writing skills and will be proficient with common computer software used in the office environment.

The ideal candidate will have a strong sense of customer support and an ability to develop and foster positive customer relationships.

The ideal candidate will possess the social skills necessary to have positive interactions and collaborations with fellow ORNL FPEs.

The ideal candidate will have experience with the fire hazards of gloveboxes, hot cells, and similar nuclear work environments.

A P.E. license in the field of fire protection engineering is preferred.

Qualification as a Systems Engineer (per DOE O 426.1) is preferred.

Membership in the Society of Fire Protection Engineers and/or the National Fire Protection Association is preferred.

This position will remain open for a minimum of 5 days after which it will close when a qualified candidate is identified and/or hired.

We accept Word(.doc, .docx), Excel(.xls, .xlsx), PowerPoint(.ppt, .pptx), Adobe(.pdf), Rich Text Format(.rtf), HTML(.htm, .html) and text files(.txt) up to 2MB in size. Resumes from third party vendors will not be accepted; these resumes will be deleted and the candidates submitted will not be considered for employment.

If you have trouble applying for a position, please email [ORNLRecruiting@ornl.gov](mailto:ORNLRecruiting@ornl.gov).

Notice: If the position requires a Security Clearance, reviews and tests for the absence of any illegal drug as defined in 10 CFR 707.4 will be conducted by the employer and a background investigation by the Federal government may be required to obtain an access authorization prior to employment and subsequent reinvestigations may be required.

If the position is covered by the Counterintelligence Evaluation Program regulations at 10 CFR 709, a counterintelligence evaluation may include a counterintelligence-scope polygraph examination.

ORNL is an equal opportunity employer. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply. UT-Battelle is an E-Verify Employer.