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Fire Protection Engineer

Date: Jan 7, 2020

Location: Oak Ridge, TN, US, 37830

Company: Oak Ridge National Laboratory

Requisition Id 2503

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

Purpose/Function of Job

This position is 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 engineering support for facilities/operations managed by UT-Battelle at the ORNL. Duties include:

- Designation as an FPE point-of-contact for lab 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;
- Performing design reviews of planned construction and building/process modifications;
- Reviewing work packages for fire protection and life safety issues and compliance;
- Supporting the design, installation, modification, and commissioning efforts for fire- and life safety-related systems/features;
- Identifying risks and recommending solutions which balance compliance with research needs;
- 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;
- Assisting in the investigations of fires and preparing reports to include lessons learned and recommendations to prevent reoccurrence;
- Supporting the Engineering Management Division Director, Fire Protection Program Manager, and Fire Protection Authority Having Jurisdiction;
- Working with and providing technical support to the ORNL fire department; 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 and will have a minimum of four years of documented engineering experience.

Candidates with a bachelor's degree in another engineering discipline (e.g. B.S. in Mechanical Engineering) and a minimum of six years of documented engineering experience, at least two of which are documented fire protection engineering experience, may also be considered qualified for this position.

The successful candidate will have a minimum of four years of documented engineering-related experience. Candidates with fewer years of engineering experience may also be considered qualified, depending on the type of 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.

Qualifications Preferred

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 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 experience researching and applying National Fire Protection Association (NFPA) Codes/Standards, the International Building/Fire Codes, and OSHA regulations.

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.

A P.E. license in the field of fire protection engineering is considered a plus.

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), Adobe (unsecured .pdf), Rich Text Format (.rtf), and HTML (.htm, .html) up to 5MB 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.

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.

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