

Y-12 Recruiting

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Posting Title (Same as Req Title)

ENG Fire Protection Engineer 500458

Reference Code

ENG Fire Protection Engineer 500458-E

Organization/Department

UPF

Job Family: Engineering

Job Specialty: Fire Protection

Ladder: Eng, Sci & IT

Career Level: Specialist, Sr. Specialist

Job Code: EPKZENFP, EPMZENFP

Job Title: Fire Protection Specialist, Fire Protection Sr. Specialist

Specific Job Responsibilities:

Responsible to perform work as a professional level staff member with self-motivation and advanced skills in understanding and application of technical principles, theories and concepts as applicable to Fire Protection. Lead and mentor other FPE personnel in developing, reviewing, and maintaining Project Fire Hazard Analysis (PFHA) and assessments. Provide interpretations and guidance for compliance with DOE Orders and DOE-mandated fire protection codes and standards. Review and provide technical guidance for the Documented Safety Analysis (DSA). Perform fire modeling of compartment fires for radiant flux, upper layer gas temperatures, and suppression activation times using C-FAST, DETACT-QS, & FDS. Participate in facility start-up activities. Review manufacturing operating procedures. Develop, review, and maintain process documents and work instructions related to the PFHA.

The employee will provide: technical expertise and application of technical principles, theories and concepts in the Fire Protection field, self-performed technical solutions to a wide range of problems through design reviews and field inspections/walk downs. General knowledge of other related disciplines and how those disciplines interface with the Fire Protection systems is required.

Specific Job Knowledge & Training Required:

Required Education and Experience:

BS in engineering/science discipline: Minimum 4 years of relevant experience.

Normally requires a minimum of 4 years of relevant experience, with typical engineering/science experience ranging from 6 to 10 years. MS: Minimum 2 years of relevant experience.

Preferred Education and Experience:

BS in engineering/science discipline: Minimum 4 to 7 years of relevant experience. MS: Minimum 2 years of relevant experience. Typical engineering/science experience ranging from 8 to 12 years.

Degree in Fire Protection Engineering or Engineering Technology, Electrical Engineering or related technical discipline is preferred.

Ability to plan and self-perform on a project/problem which includes, but is not limited to, design time-lines, functions and requirements, design basis and criteria, design schedule and tracking, design review, inter-discipline design coordination, design approval, design change control, and field verification of compliance to design.

Skills are to include coordination of FPE efforts with all individuals of the integrated project team. Technical knowledge is to contain related fire protection principles and skilled application to fire risks in industrial facilities, systems and processes. Knowledge of fire protection engineering principles and their application to fire risk analysis in nuclear/industrial facilities, systems, and processes; NFPA Codes and standards; DOE Orders and DOE-mandated codes and standards related to fire protection; and current computer-based analytical methods related to fire hazard analyses.

Ability to perform quantitative fire hazard analysis and risk assessments. Knowledge of computer fire models e.g., CFAST, DETACT-QS, FDS, and HASS. Ability to communicate clearly and effectively through the oral and written word including formal presentation skills.

The applicant must meet the requirements of DOE O 426.2 (i.e., bachelor's degree in engineering or related science, 4 years job-related and at least 1 year nuclear experience, or a DOE O 426.2 alternative).

These experience requirements can be satisfied based on experience obtained following employment. In the interim, until experience requirements are met, newly hired personnel will not be assigned duties that could impact the safety basis of nuclear facilities. (Ref. DOE O 426.2)

Notes:

Twelve or more years of relevant education, training, and/or progressive experience may be considered to satisfy educational and years-of-experience requirements for this posting. For postings on the Engineering, Science and IT Ladder, in lieu of a technical bachelor's degree, the Operations Professional Ladder may be considered.

The minimum education and experience for the lowest career level in the job posting range are listed under Specific Job Knowledge and Training Required. Successful candidates hired into a higher career level than the minimum in the range must meet the requirements listed in the job leveling charts for the career level into which they're being hired.

The career level will be determined based upon relevant education and experience of the selected candidate. Internal applicants, if the move is determined to be lateral, will maintain their current career level and pay.

For internal applicants whose career level may be higher than the career level range indicated on the job posting, we will consider the scope of work being performed, in addition to a candidate's education and experience, when determining whether a lateral move is warranted.

Requires a Q clearance; however all qualified candidates will be considered regardless of their current clearance status. The ability to obtain and maintain a Department of Energy "Q" clearance is required.

Contract Type

Regular

Employment Fraction

Full-time

Y-12 is a drug-free workplace. Candidates accepting a job offer will be required to pass a pre-placement physical, drug screening and background investigation. As an employee, you must also be able to receive and maintain a security clearance from the United States Department of Energy in order to meet eligibility requirements for access to classified information or matter. All employees with a security clearance are also subject to being randomly selected for drug testing without advance notification.

Y-12 is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, gender, sexual orientation, gender identity, age, religion, national origin, ancestry, genetic information, disability or veteran status.

For questions or more information contact:

JAKE GREENWELL | FIRE PROTECTION ENGINEERING MANAGER

Y-12 NATIONAL SECURITY COMPLEX

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