



FIRE PROTECTION ENGINEER – EIT

Burlington, Massachusetts

Orlando, Florida

Fire Protection Engineer - EIT - (220003OR)

Description - External

The buildings that make up the landscape of our daily lives seem like permanent fixtures, fastened to a time and place. But what if that didn't have to be true? What if our built environment — where we live, learn, play, and conduct business — carried us forward instead?

Our Buildings practice keeps people at its heart, recognizing that our shared journey forward is shaped by the meaningful and responsive places we design. From iconic designs to monumental groundbreakings, join us to bring transformational building solutions to life. Every day we apply our expertise, creativity, and passion to propel communities into the future—join us!

Your Opportunity

Fire Protection Engineers plan, design, and direct engineering projects that prevent, detect, control or reduce fire and smoke in buildings and structures, recommend materials, equipment, or systems to assist in safeguarding life and property against fire, analyze how fire behaves and model how safety features perform in a fire. They assess the fire protection needs within projects and create drawings and schematics of projects using computer-aided design (CAD) or Building Information Modeling (BIM) software. A Fire Protection Engineer performs engineering work under close supervision requiring the application of standard techniques, procedures, and criteria to carry out a sequence of related fire protection engineer tasks such as the preparation of simple plans, designs, calculations, costs and bills of material in accordance with established codes, standards and drawings. The role applies professional concepts and expands upon learning while performing various phases of engineering work receiving detailed instruction.

Your Key Responsibilities

- Use knowledge of general concepts of fire protection engineering elements through investigation and analysis, to support engineering projects that may include fire protection systems (sprinkler systems, including the firehose/standpipe design and water supply evaluation/design), fire detection systems (fire alarms), Very Early Smoke Detection Apparatus systems (VESDA), fire suppression systems, smoke control systems, emergency voice communications systems, may include selection of fire resistant material (fire resistant wood, concrete, steel, and other materials), and development of egress routes.
- Familiarity with fire, smoke and egress modeling software
- Perform basic calculations to analyze and design engineering system components using company standard software and proprietary manufacturer software.
- Assist team in preparing engineering designs, drawings, specifications, presentations and reports, and gather information to support design decisions.
- Assist in basic interpretation and verify compliance with applicable codes and engineering standards and practices.
- Work with other engineering disciplines and professionals in the coordination of the project under the direction of a senior engineer.
- Assist the team in providing support services during construction that can include submittal reviews, responses to requests for information and contract document clarifications.

- Perform field work related to installation related activities as required.
- Perform other duties as assigned by senior engineering staff.

Qualifications - External

Your Capabilities and Credentials

- Requisite knowledge, interpretation, and application of Building codes and NFPA standards.
- Knowledge of fire protection and fire alarm systems.
- Participates and collaborates in project team setting with internal and external clients.
- Strong technical writing, presentation and interpersonal skills.
- Requires understanding of Microsoft Office Suite, Revit, AutoCAD.

Education and Experience

- Minimum of Bachelor's Degree Engineering with an emphasis in Fire Protection Engineering.
- With zero up to three years of related work experience or, an equivalent combination of education and experience to successfully perform the essential duties of the job such as those listed above.
- EIT (Engineer in Training) preferred, working towards obtaining Fire Protection P.E. licensure.

This description is not a comprehensive listing of activities, duties or responsibilities that may be required of the employee and other duties, responsibilities and activities may be assigned or may be changed at any time with or without notice.

Stantec is a place where the best and brightest come to build on each other's talents, do exciting work, and make an impact on the world around us. Join us and redefine your personal best.