



Fire Protection Engineer

Stantec Buildings is on a mission to become the world's leading integrated design practice. Our architects, engineers, interior designers, sustainability specialists, and technologists are passionate about the power of design. We take an innovative, collaborative approach to projects, sharing a common belief that sustainable design for the building environment can make the world a better place for future generations. Join us and design your place with Stantec!

Your Opportunity

Take the first step towards designing your career with Stantec. As a professional services firm we are seeking Fire Protection Engineers to join our growing North America Fire Protection Engineering Team. We are better together.

Fire Protection Engineers (FPEs) protect lives and property. They plan and design engineering projects that prevent fires from occurring and minimize the impact of those fires that do occur. Fire protection systems detect, control and reduce fire and smoke in buildings and structures. FPEs recommend materials, equipment, and 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 document those in design analysis or basis of design reports. They create design documents for fire protection systems, including drawings, using computer-aided design (CAD) or Building Information Modeling (BIM) software, and specifications that are used to direct the construction of buildings and systems in the field. FPEs perform construction progress inspections and acceptance tests / commissioning to ensure that installed systems comply with the construction documents and applicable codes and that they function as intended.

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 engineering 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

- Apply concepts of fire protection engineering through investigation and analysis to support engineering projects that may include design of fire suppression systems (sprinklers and standpipes, water supply, special hazard extinguishing systems), fire detection and alarm systems, and smoke control systems, selection of fire-resistant materials and assemblies, and development of egress strategies.
- Perform calculations to analyze and design engineering system components using company standard software and proprietary manufacturer software.
- Gather information to support design decisions.
- Prepare engineering designs, drawings, specifications, presentations and reports with guidance from senior engineers.
- Verify compliance with applicable codes and engineering standards and practices.
- Work with other architecture and engineering design professionals in the coordination and delivery of projects under the direction of a senior engineer.
- Provide support services during construction, including submittal reviews, response to requests for information and contract document clarifications, construction progress inspections and acceptance testing.
- Perform other duties as assigned by senior engineering staff.

Your Capabilities and Credentials

- Knowledge of, and experience interpreting and applying, building and fire codes and NFPA standards.
- Knowledge of active and passive fire protection systems, including fire suppression systems, fire detection and alarm systems, smoke control systems, fire resistive construction and egress systems.
- Ability to participate and collaborate in project team setting with internal and external clients.
- Strong technical writing, presentation and interpersonal skills.
- Requires understanding of Microsoft Office Suite, Revit, AutoCAD.
- Experience with Fire Dynamics Simulator, Contam, Pathfinder and other computer modeling software is a plus.

Education and Experience

- Minimum of Bachelor of Science Degree in Fire Protection Engineering or other closely related engineering discipline with an emphasis in Fire Protection Engineering coursework.
- Four (4) to ten (10) years of related work experience or an equivalent combination of education and experience to successfully perform the essential duties of the job as those listed above.
- Registered Professional Engineer (P.E.) who has passed the fire protection engineering examination administered by the National Council of Examiners for Engineering and Surveying, or actively working towards obtaining Fire Protection Professional Engineer (P.E.) licensure.

Typical office environment working with computers and remaining sedentary for long periods of time. Field work may include exposure to the elements including inclement weather.

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.

Location

Our Fire Protection Engineers are currently located in Boston, Massachusetts; Stamford, Connecticut; Washington, DC; Atlanta, Georgia; and Orlando, Florida; Miami, Florida; Chicago, Illinois; Seattle, Washington; Austin, Texas; and Houston, Texas. We are actively recruiting Fire Protection Engineers for multiple locations across the United States.

Additional Information: [Stantec Jobs](#) | [Stantec](#)

US Office Locations: <https://www.stantec.com/en/offices/office-finder#country=location0:north-america/us>