



Fire Protection Engineering Intern (Summer 2026): 1004892

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

Fire Protection Engineers (FPEs) protect lives and property. They plan and design engineering systems 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 them 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 develop specifications that are used to direct the construction of buildings and systems in the field. FPEs perform construction progress inspections and witness acceptance testing / commissioning to ensure that installed systems comply with the construction documents and applicable codes and standards, and function as intended.

Stantec Fire Protection Engineers work on a wide variety of projects across the United States and around the world. Our clients include Federal, state and local government agencies, colleges and universities, and a wide variety of commercial clients, including global manufacturing and mission critical companies. Recent projects include battery electric bus maintenance and storage facilities; aircraft maintenance hangars; airport terminal buildings; marine wharfs, piers and dry docks; high-hazard occupancies including ammunition storage and munitions testing facilities; highway bridges; dormitories; university classroom and laboratory facilities; warehouse and distribution facilities; mission critical data centers; and large manufacturing facilities, including semiconductor and solar panel manufacturing.

As a Fire Protection Engineering Intern, you will work on finite tasks as part of a larger design team under close guidance and supervision of an experienced Fire Protection Engineer. These tasks may include, but not be limited to, building, fire and life safety code research, hydraulic calculations, layout of fire protection systems in REVIT or AutoCAD, field surveys, fire hydrant flow testing and writing reports.

Your Key Responsibilities

- Apply general 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, smoke control systems, selection of fire-resistant materials and assemblies, and development of egress strategies.
- Perform basic calculations to analyze and design engineering system components using company approved software and proprietary manufacturer software.
- Gather information to support design decisions.
- Assist teams in preparing engineering designs, drawings, specifications, presentations and reports.
- Collaborate with architecture and engineering design professionals in the coordination and delivery of projects under the direction of a senior engineer.
- Assist the team in providing 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

- Basic understanding of REVIT and/or AutoCAD and their use as drafting / design tools
- Ability to participate and collaborate in a project team setting
- Ability to take direction, follow processes and accept feedback and suggestions from experienced engineers and designers.
- Basic knowledge of building and fire codes and NFPA standards.
- Basic 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 write reports and speak in front of others.
- Functional knowledge of Microsoft Office Suite.
- Experience with Fire Dynamics Simulator, Contam, Pathfinder and other computer modeling software is a plus.

Education and Experience

- Student pursuing a Bachelor's degree in Fire Protection Engineering, Fire Protection Engineering Technology, or another engineering discipline with coursework in fire protection engineering.
- Completion of sophomore year.
- Completion of one or more courses related to fire protection system design and/or life safety analysis such as Introduction to Life Safety Analysis, Water Based Fire Protection Systems Design, Special Hazard suppression Systems, Fire Protection Fluid Mechanics, and/or Smoke Management and Fire Alarm Systems.

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

Potential internship locations include Boston, Massachusetts; Stamford, Connecticut; Washington, DC; Atlanta, Georgia; Orlando, Florida; Miami, Florida; Austin, Texas; and Houston, Texas.

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