Fire Protection Designer

A Fire Protection Designer will perform fire protection design services on multi-discipline building design projects of small to large scope for commercial and government facilities, as well as single discipline fire protection engineering projects of small to large scope.

General responsibilities include but are not limited to the following:

- Performing various design services as a Fire Protection Designer, including conceptual studies, program requirements, design analyses, calculations, system selection and layout for building design with minimal direction from supervising architectural staff.
- Providing oversight and coordination of projects, and working with assigned Design Managers and Project Managers, to meet client’s budget, contract fees, goals, objectives, and deadlines
- Coordinating and communicating all aspects of fire protection design within multi-disciplinary teams as requested by the Design Manager or Project Architect.
- Supervising and mentoring EIT’s and CADD technicians in the production of project documentation
- Complying with quality control policies and procedures
- Providing support services during the bidding process, i.e., preparing addenda, amendments, open bids, tabulate bids, etc. as directed
- Performing construction phase services including representing the firm on-site, answering RFI’s, reviewing shop drawings, and preparing record drawings as directed
- Working with, responding to, and taking direction from the Department Director, Senior Fire Protection Engineer, Project Managers, Design managers and senior management

Project responsibilities include but are not limited to the following:

- Perform Engineer or Senior Engineer tasks as directed
- Responsible for document organization and clarity
- Responsible for discipline drawing coordination
- Assist in preparing project code analysis
- Selection and layout of the fire protection systems, including consideration of alternative systems
- Preparing accurate, complete, and code-compliant drawings and specifications for schematic, design development, and construction document submittals.
- Develop details of building system components
- Assist in development of discipline specifications
- Coordinate work product with other disciplines
- Incorporate responses to QC and Gray Team comments into the project documents
- Assist in responding to RFI’s, Dr. Check comments, etc.
• Review and respond to CA submittals
• Perform discipline QA review on assigned projects
• Provide CADD support to the department as necessary
• Adhere to project budget and schedule

Education, Technology, and Experience

• Have earned a high school diploma, or equivalent, and completed coursework in AutoCAD, Microstation, and/or BIM software packages from a technical or vocational school. Additional education as noted below is desirable.
  o Bachelor of Science in Fire Protection Engineering Technology (or equivalent) or a minimum of three years experience with a design firm or fire protection contractor; or
  o A Certificate in a field of study related to drafting and design; or
  o A four-year undergraduate degree in a field of study related to drafting and design
• Applicable Autodesk certifications are desirable
• Active membership in drafting or modeling-related organizations (local or web-based) is desirable
• Certificate of Management for Building Information Modeling (CM-BIM) is desirable
• Understanding of sustainable design principles and design practices and pursuing LEED AP accreditation is desirable
• Additional certifications such as CDT, CCS, or CCCA are encouraged to reflect personal growth in the profession and an ever increasing knowledge base to enhance the design and documentation process
• A Fire Protection Designer should be able to effectively utilize current company software programs for word processing, e-mail, and information management.
• Working familiarity with design and production software to a point of being able to utilize the software in the development of project documents and interact with other project team members in their use of the software is highly desirable.
• A Fire Protection Designer should typically have 8 years or more of significant A/E consulting experience as a CAD or BIM Technician, Designer or Senior Designer in an engineering firm, A/E firm, contractor or government agency while working under the supervision and guidance of a licensed Fire Protection Engineer (PE) or NICET technician.

• Experience in federal, state, municipal, healthcare, commercial, higher education or similar projects plus experience in Design/Build and CM at Risk project delivery methods is desirable.
Additional Knowledge, Skills, and Abilities

- Ability to prepare effective and concise documents
- Possess technical precision and creative design skills
- Ability to make effective presentations to a variety of groups
- Have a can-do attitude with a desire to provide outstanding professional services
- Be dedicated to his or her professional development as well as the success of colleagues and the firm as a whole