

Date: September 2021

Subject: Senior Fire Protection Engineer  
Location: Moon Township, PA (Pittsburgh) with Fully Remote Working Option  
Posting Number: Job Number 300125

### **Job Description**

The Senior Fire Protection Engineer will be responsible for completing projects with little or no supervision. Projects include all aspects of fire protection engineering design from 'cradle to grave'. This includes the responsibilities of proposal preparation, complete system design, site evaluations, and testing and commissioning of systems. Typical projects and types of systems include: fire sprinklers, fire pumps, high expansion foam, clean agent systems, fire alarm and mass notification systems. Typical buildings and facilities include: office buildings, storage and warehouses, aircraft hangars, and maintenance facilities.

- Complete fire protection system designs and be the designer of record for sprinkler, fire pump, fire alarm and mass notification systems
- Be responsible for project budgets and project work schedules
- Assist junior staff with project completion
- Perform hydraulic calculations for sprinkler and fire pump design
- Analyze life safety requirements for buildings, including building code compliance, occupant load calculations and egress analysis
- Perform on-site system evaluations and assist with final system testing
- Summarize submittals and contractor Requests for Information for review
- Coordinate designs with other engineering disciplines

### **Requirements**

- Bachelor's Degree or Master's Degree in Fire Protection Engineering
- 9+ years of professional experience
- P.E. License
- Experience in Fire Protection system design including: fire sprinkler systems, fire pumps, clean agent systems, high expansion foam systems, fire alarm and mass notification systems
- Experience in computer generated hydraulic design
- Knowledge of and experience with building and design codes, specifically IBC, NFPA 101, NFPA 13 and NFPA 72
- AutoCAD and Revit experience are preferred

**Salary**

Salary will be based on qualifications and experience

**Supervisory Responsibilities**

This job has no supervisory responsibilities

**Office Location**

The position is through the Moon Township, Pennsylvania (15 miles west of Pittsburgh) office. Work options include:

- Full time in office
- Hybrid (office and remote working)
- Fully remote

**Travel**

15-25% travel based on project schedules

**ABOUT THE TEAM**

**Architecture & Building Engineering Practice**

Michael Baker International seamlessly integrates all our service offerings – architecture, planning, landscape architecture, engineering and management – to solve client challenges from multiple vantage points, providing unsurpassed holistic, sustainable, and innovative solutions. From high-profile, high-image landmarks to low-cost, utilitarian solutions, our professionals know how to balance image and cost appropriately for each unique situation. At Michael Baker International, we believe that the beauty of a project resides both in performance and aesthetics – “success” to us is measured by functionality, value, and exceeding clients’ expectations to “Make a Difference.”

The fire protection engineering group is a portion of Michael Baker’s Architecture, Engineering and Planning (AEP) Practice. Baker’s Moon Township AE group is full-service consisting of structural, mechanical, fire protection, electrical and telecom engineers along with architects, planners, landscape architects and interior designers. With the variety of employed professionals, the candidate will have the opportunity to work with all facets of vertical building engineering and design.

**Michael Baker International**

Michael Baker International, a leading provider of engineering and consulting services, including design, planning, architectural, environmental, construction and program management, has been solving some of the world’s most complex infrastructure challenges for more than 80 years with a legacy of expertise, experience, innovation and integrity.

Based in Pittsburgh and with nearly 100 offices nationwide, we partner with clients on everything from roads, bridges, tunnels, mass transit, and airports, to water treatment plants, arctic oil pipelines,

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We provide visionary leadership in facilitating transformational change for our clients. Our work delivers differentiating innovations and dedicated experts who challenge the status quo and share a world of diverse experience and an impassioned entrepreneurial spirit. We deliver quality of life.

We Make a Difference.

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