

Date: September 2017

Subject: Fire Protection Internship – Moon Township, PA (Pittsburgh)

### **Michael Baker International**

Michael Baker International <http://www.mbakintl.com> is a leading global provider of engineering and consulting services which includes planning, architectural, environmental, construction, program management, and full life cycle support services as well as information technology and communications services and solutions. Baker provides its comprehensive range of services and solutions in support of U.S. federal, state, and municipal governments, foreign allied governments, and a wide range of commercial clients.

The fire protection engineering group is a portion of Michael Baker's Architecture, Engineering and Planning (AEP) Practice. Baker's Moon Township AEP 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.

The fire protection engineering group is looking for a full time intern for the **summer of 2018** in the Moon Township, PA office.

### **Job Description**

Under direct supervision, assists senior fire protection personnel with the planning, design and analysis of fire protection systems and perform life safety analysis for new and existing buildings. Types of systems include: fire sprinklers, fire pumps, high expansion foam, fire alarm and mass notification systems. Typical buildings and facilities include: office buildings, storage and warehouses, aircraft hangars, and maintenance facilities.

- 1) Requirements
  - a. In Junior or Senior year pursuing a Bachelor of Science in Fire Protection Engineering
  - b. Have an understanding of fire suppression systems, fire alarm systems and life safety analysis
- 2) Preferred
  - a. AutoCAD and/or Revit
  - b. HRS HASS calculation experience
- 3) Duties, under supervision from senior personnel
  - a. Uses computer assisted engineering and design software to perform engineering tasks
  - b. Complete system design, including piping, valves and device layout of sprinkler and fire alarm/mass notification systems
  - c. Perform hydraulic calculations for sprinkler and fire pump design
  - d. Analyze life safety requirements for buildings, including building code compliance, occupant load calculations and egress analysis
  - e. Summarize submittals and contractor Requests For Information for review
  - f. Coordinate designs with other engineering disciplines

- 4) Hours
  - a. 40 hrs/wk for summer of 2018
  
- 5) Location
  - a. The position is located in Moon Township, Pennsylvania (15 miles west of Pittsburgh)
  
- 6) Travel
  - a. None

Please submit resumes to Kevin Spangler at [kbspangler@mbakerintl.com](mailto:kbspangler@mbakerintl.com) or submit on the company's website at: <http://www.mbakertnl.com/Careers>.