

EWING COLE

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Fire Protection Engineer

[Philadelphia, PA](#) • Fire Protection

Job Type

Full-time

Description

EwingCole is an employee-owned AE firm with nine US offices and a very wide range of clients and project types. We seek a Fire Protection Engineer, capable of performing engineering tasks including fire suppression design, fire alarm design, building assessments, code consulting, and egress analysis. The successful candidate will join a team of Fire Protection Engineers who participate in a wide range of projects throughout the US including health care, manufacturing plants, industrial sites, information technology facilities, educational, museums and more.

The Fire Protection Engineer provides design assistance to Fire Protection Engineer and other Project Engineers and Architects for life safety, fire protection systems design and code analysis.

Essential Functions

- Prepare Code Studies for complex projects and support Project Architect (PA) performed Code Studies for other projects.
- Prepare Life Safety Plans for complex projects and support Project Architect (PA) performed Life Safety Plans for other projects.
- Prepare Fire Suppression and Fire Alarm contract documents for complex projects and support Plumbing and Electrical Engineers for other projects.
- Assist with code reviews/interpretations.
- Assist in site water supply analysis.
- Assist Project Architect with egress, construction types, barrier selection and other building attributes.
- Evaluate site water supplies for fire suppression systems design for complex projects.
- In cooperation with Project Architect, meet with AHJs to review major code issues.
- Integrate fire protection systems with architectural and engineering disciplines.
- Sprinkler and Fire Alarm system shop drawing review.
- Assist with performance and report on CFD fire modeling and Egress Modeling.

- Lead meetings with clients, code officials, and other project stakeholders to negotiate/resolve fire protection and/or life safety code issues.
- Travel regionally, nationally and internationally in support of project requirements.
- Perform other duties as requested or required.

Required Education and Experience

- Bachelor of Science in Fire Protection Engineering, Bachelor of Science in Architectural Engineering
- Registered Professional Engineer in at least one state with suitable credentials for registration in other states
- 4 to 6 years of relevant experience
- Experience in analysis and/or design of building fire safety systems
- Experience in code consulting with ICC and NFPA 101
- Demonstrated knowledge and design skills in suppression and detection
- Working knowledge of relevant software, including Office Suite, FDS, Autocad/Revit
- Experience with ICC (IBC, IFB) model building codes and NFPA 13, 72, etc.
- Sprinkler design experience
- Management knowledge and application
- Technical knowledge and application
- Computer analysis skills

Preferred Education and Experience

- Demonstrated knowledge of and/or experience with Building and Fire Codes
- Prior use of CFD and Egress modeling (FDS, PyroSim, Pathfinder)
- Smoke control design experience
- Structural fire analysis experience

Benefits of Working at EwingCole

Generous paid time off, 401(k) plan with company match, tuition reimbursement, flexible/hybrid work options, paid parental leave, excellent insurance offerings including medical, dental, vision, accident, critical illness, hospital indemnity, identity protection and more.

EwingCole does not accept unsolicited resumes from recruiters or agencies. Any resume submitted by an agency without a prior written agreement will be deemed the property of EwingCole and no fee will be paid in the event the candidate is hired.