



JOB DESCRIPTION: PhD RISK ENGINEER

COMPANY PROFILE

A company that provides multi-disciplinary design and consulting services in Fire Protection Engineering, Industrial Fire Protection, Process Safety, And Building Code Consulting Services is seeking a Senior Engineer to join their team of high performing consultants.

The Company operates on principles of trust, excellence, quality, and loyalty to deliver innovative and cost-effective solutions tailored to client needs.

POSITION PROFILE

This individual should be a highly motivated, upwardly mobile Senior Engineer who would like to contribute to the solution of unique technical problems within the field of Fire Protection and its associated disciplines. This position offers the experience of working with clients in a multitude of market sectors with the long-term possibility of growing into a Partner role.

DUTIES

- ◆ Conduct fire safety evaluations, develop fire protection strategies, design fire suppression and detection systems, complete dust hazard analyses, ensure compliance with relevant codes and standards, and participate in client meetings.
- ◆ Perform fire protection engineering design and consulting services such as hazardous material analysis for code compliance, code consulting, system design, and performance-based fire engineering design.
- ◆ Provide innovative approaches to solving complex project design problems.
- ◆ Design and execute projects of moderate to difficult size and complexity.
- ◆ Prepare proposals and develop and mentor junior staff in proposal preparation.
- ◆ Conduct and direct technical analyses.
- ◆ Develop project-specific performance-based design alternative approaches.
- ◆ Conduct risk assessments, qualitative or quantitative, for a variety of processes and occupancies.
- ◆ Develop electrical classification requirements for specific hazardous process areas, including diagrammatic and narrative explanations.
- ◆ Be an active participant in the Company's Marketing and Business Development efforts to maintain existing client relationships and to develop new client relationships.
- ◆ Critically interpret and review work as well as local, state, and federal regulations and communicate findings to co-workers, clients, and regulatory agencies.
- ◆ Collaborate with a multi-disciplinary team of consultants.
- ◆ Maintain an up-to-date professional standing on the latest fire protection engineering and hazardous materials processes, procedures, and regulations.
- ◆ Participate in trade group and association meetings.
- ◆ Participate in client meetings and site visits as necessary. Travel is generally <25% with trips generally 1 to 2 days up to a week in duration.

QUALIFICATIONS

- ◆ PhD Degree in an Engineering discipline (Fire Protection, Mechanical, Electrical, Civil, Chemical or related) with a minimum of 6 years industry experience. An active PE license in Fire Protection Engineering is desired. Excellent candidates who are registered as an EIT will be considered.
- ◆ Solid technical background with the desire to grow revenue through the development of relationships with new and existing clients.



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- ◆ Solid experience working on consulting assignments and working effectively with clients and multi-disciplinary teams.
- ◆ Comfortable working in a fast-paced environment with the ability to identify issues and formulate solutions.
- ◆ Ability to effectively collaborate with a diverse team and an assorted set of clients.
- ◆ Strong building code and fire protection consulting experience.
- ◆ Solid fire risk assessment and management experience.
- ◆ Solid hazardous materials background as related to the Fire Protection Engineering discipline.
- ◆ Strong understanding of hazardous materials evaluation for code compliances.
- ◆ Foundational knowledge of NFPA/ANSI/ASTM standards, model codes (e.g. ICC codes), and other documents related to building fire safety, industrial fire protection, combustible dust, and related engineering aspects.
- ◆ Knowledge of hazardous exhaust systems and fire rated compartmentalization for various occupancies.
- ◆ Proficiency with fire suppression and smoke controls system design.
- ◆ Familiarity with reactive chemistry battery hazards (e.g. BESS and Li-ion hazards).
- ◆ Familiarization of fire, explosion, and release modeling.
- ◆ Project management skills are a plus.
- ◆ Proficiency in the analysis and communication of information and working cooperatively with agencies, organizations, and individuals to guide decision-making.
- ◆ Be comfortable in a fast-paced working environment with the ability to identify issues and formulate solutions.
- ◆ Excellent communication and presentation skills.
- ◆ Solid problem-solving abilities.
- ◆ Flexibility to carry out assignments anywhere in the US and abroad.
- ◆ Experience with design tools such as Bluebeam, AutoCAD, Revit, and AutoSprink.

BENEFITS

- ◆ Medical, Dental, and Vision Insurance.
- ◆ Profit Sharing.
- ◆ Bonus.
- ◆ Three Weeks Vacation Plus The Days Between Christmas and New Year's Day.