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Background

Blue Engineering and Consulting Company (BLUE), an employee-owned engineering and consulting firm specializing in providing engineering and technical support to the liquefied natural gas (LNG) industry, is looking for an energetic, highly motivated and well-qualified Fire Protection Engineer to join our team in Ellicott City, MD.

Job Description


The ideal candidate will have 5+ years of prior experience with fire protection engineering/design experience in industrial or LNG facilities and demonstrated ability to excel in a team working environment. The team will look to you for tactical problem-solving for clients and development and review of fire protection deliverables. The ideal candidate will possess a BS or higher degree in fire protection engineering or equivalent. EIT/FE certification in Fire Protection Engineering or a Professional Engineer license a plus.

Essential Functions and Job Responsibilities include:

- Perform fire protection evaluations for new and existing hydrocarbon processing facilities, with a strong focus on LNG facilities (occasional travel required).
- Develop flame and gas detection layouts using performance-based design principles.
- Design plant fire water systems and perform hydraulic calculations to specify fire water tanks, fire pumps, and other system components.
- Specify fire extinguishing systems using dry chemicals and clean agents, as well as other special hazard systems.
- Coordinate emergency response and training for plant personnel and local emergency responders.
- Perform hazard modeling for thermal radiation exposure from fires and flammable/toxic vapor dispersion from accidental releases.
- Learn additional facets of the LNG project lifecycle such as:
 - Design engineering (Process Flow Diagrams, Heat and Material Balances, Piping and Instrumentation Diagrams)
 - Process safety (Process Hazard Analysis- HAZID, HAZOP/LOPAs)
 - Federal regulatory and permitting requirements (including facility siting studies, building siting studies, and other quantitative risk assessments)
 - Assist with ad hoc projects as assigned by managers.

Required skills include:

- Basic understanding of the use and application of Two Dimensional or Three Dimensional fire modeling tools, including Computational Fluid Dynamics (CFD), preferred,

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- Basic knowledge of building codes, fire codes, NFPA standards, FM Global datasheets, and refinery/industrial API guidelines a plus,
- Excellent written and verbal communication skills,
- Ability to work methodically and analytically in a quantitative problem-solving environment and demonstrated critical thinking skills,
- Proficient computer skills (e.g., Microsoft Office Suite),
- Strong attention to detail, facilitation, team building, collaboration, organization, and problem-solving skills, and
- Demonstrated leadership skills and ability to work independently with minimal oversight.

The candidates must be authorized to work in the US and have a valid passport. A background check and drug test may be required as a term of employment.

Applications will be reviewed and received until the position is filled. To apply or learn more about BLUE, please visit our website at www.BlueEngineeringandConsulting.com or contact us at BlueTeam@BlueEandC.com.