

## Job Description

### **Process Safety & Risk Assessment Engineer**

#### **GENERAL CONSTRUCTION (GC)**

*When you join our team, you are in the right place for your career growth and to utilize your talents and potential. We are a full Engineering, Procurement, Construction, and Maintenance (EPCM) company serving clients in Oil & Gas, Mining & Metal, Petrochemical, Power, Civil Infrastructure, Water industries in U.S. and around the world.*

*Servicing our customers through our diverse business divisions, we offer challenging assignments on some of the world's largest and most complex projects. Our clients value us because they know we could deliver. General Construction is headquartered in Houston, Texas and has opportunities throughout the U.S., Canada, Mexico and China.*

General Construction Group is looking for a **Process Safety & Risk Assessment Engineer** for our Houston office. Job duties will include but not be limited to the following:

#### **Roles & Responsibilities:**

- Must have outstanding skills and proven track record in chemical process safety including preliminary hazard analysis, failure mode and effects analysis, fault tree and event tree analysis, layer of protection analysis, and probabilistic risk assessment.
- Must have strong skills in hazard consequence analysis such as deflagration and explosion dynamics, explosion overpressure effects, unconfined vapor cloud explosions, BLEVEs, and flame radiation.
- Responsible for performing process hazard and risk analysis, accident investigation, equipment failure and reliability analysis, chemical process analysis, and investigation of fires, explosions and chemical releases in a variety of settings.
- In-depth knowledge of OSHA process safety management and USEPA risk management regulations.
- Demonstrated leadership skills, proven ability to work in a multidisciplinary environment, and strong mentoring skills with technical staff.
- Review detail design, HAZOP/HAZIP safety, new products and analyze engineering prints of items to be manufactured.
- Manufacturing experience in process safety, first pass quality and control improvement projects
- Knowledge of PHA/LOPA Facilitation and Incident Investigation (TAPROOT).
- Must be able to communicate findings in the form of reports and presentations to our clients.
- Responsible for review of project designs and recommendation of changes to design so that projects are safe and operable.
- Participate and promote Zero Accident HSE work culture.
- Enforce HSE regulations and adheres to current codes and standards.
- Responsible for on-the-job training of owner's personnel, if required.

**Professional Certification:** PE Registration desired

**Experience:** Five (5) to fifteen (15) years of hands-on experience.

**Education:** BS or MS of Chemical Engineering.

Intermediate to advanced computer hardware/ software literacy. Knowledge of electrical, process, mechanical, HVAC and instrumentation industries desirable (engineering, fabrication, testing, installation and start-up). Proven experience and track record of accomplishment with excellent oral & written communication skills.

**Benefits:**

General Construction Group offers a selection of competitive lifestyle benefits which could include a 401K plan with company match, pension, medical, dental, vision, life insurance, flexible spending account, disability, paid time off, or flexible work schedule. We support career advancement through professional training and development.

**EOE:**

*General Construction Group is Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or protected veteran status and will not be discriminated against on the basis of disability.*