

## Mechanical Engineer - Process Safety

Bethesda, MD

Gexcon is a leading engineering and consulting firm headquartered in Bergen, Norway with US offices in Bethesda, Maryland; Houston, Texas and Charlestown, Massachusetts. Gexcon US provides Risk and Safety Studies using the industry-leading CFD software FLACS, as well as Accident Investigation, Failure Analysis and Prevention, R&D and Experimental Testing. Gexcon's software portfolio consists of consequence modelling and risk assessment tools, such as FLACS, FRED, Shepherd, PIPA, EFFECTS, and RISKCURVES.

**Gexcon US is currently seeking to strengthen our process safety consulting team in our Bethesda, MD office.**

### **Duties and Responsibilities**

- Support Gexcon US accident investigation business. This will include, but not be limited to: assisting senior staff with site investigation, evidence collection and testing tasks; review and summarize documents and depositions; prepare and/or QA analyses and reports; etc.
- Project support for the various consulting projects, as well as contract research and equipment testing.
- Dispersion and explosion modeling.
- Interpretation of results and generation of reports.
- Project based engineering support to existing clients in the offshore, petrochemical, processing and civil contingency sectors.

## The Candidates

### Qualifications

- MSc or PhD degree in Chemical or Mechanical Engineering.
- Established background in process safety, particularly as related to oil and gas or chemical facilities from academic and/ or previous work.
- Previous experience using FLACS or 2D consequence modeling tools (PHAST or FRED), from academic or consulting work, is required. Experience with other CFD modeling tools will also be considered.
- Experience with hazard consequence analysis, such as deflagration and explosion dynamics, explosion overpressure effects, unconfined vapor cloud explosions, BLEVEs, and flame radiation is a plus.
- Strong technical background in combustion and/or fire dynamics is a plus.

### Personal Qualities

- Demonstrate an analytical approach and good written and oral communication skills.
- Must be detail-oriented, highly organized, and a self-starter.
- Ability to work under critical time deadlines and prioritize while exercising discretion, diplomacy, and good judgment.
- Ability to take ownership of projects and multi-task.
- Excellent interpersonal skills, including the ability to maintain effective working relationships.
- Ability to interact with consultants and staff at all levels as well as with clients and business contacts.

### Other Notes for the Candidates

- Candidates are being sought at the junior level (0-3 years of consulting experience), however, more senior candidates with a proven track record of consulting and business development experience will also be given serious consideration.
- Candidates must be legally authorized to work in the United States and have a valid passport.
- A background check and drug test may be required as a term of employment.

### Benefits Offered

- Challenging opportunities in an international company
- Competitive salary and remuneration package based on established KPIs
- Full-time position at Gexcon
- Health/ Dental
- Life and Disability Insurances
- Paid Vacation and Sick Leave
- Holiday Pay
- 401k Savings

## Office Location

4833 Rugby Avenue, Suite 100, Bethesda, MA, 20814.

## Desired Starting Time

Immediately.

## How to Apply

Please send your CV and cover letter to [David.Ellis@gexcon.com](mailto:David.Ellis@gexcon.com).

### About Gexcon

Gexcon is a world-leading company in the field of safety and risk management and advanced dispersion, explosion and fire modelling. Our experience arises from detailed knowledge of explosion phenomena built up throughout years of conducting extensive research projects, carrying out safety assessments, performing accident investigations, and performing physical testing at the company's facilities.

### Gexcon US

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