

**Assistant Process Safety Consultant Shanghai  
Grade 9  
Resumes to Dr. Kaisheng Chen**

**Job Summary**

Atkins is one of the world's largest global design consultancies providing technical safety services worldwide through our 160 overseas offices. Our Oil and Gas Division is a leading independent supplier of engineering and specialist services to the Oil and Gas industry, and we have been providing solutions to the Oil and Gas sector since 1975.

We provide consultancy services across a wide range of disciplines and facilities covering offshore, terminals, refineries, petrochemical plants and pipelines, and work on some of the most exciting and varied projects in the sector with a proven track record of providing quality technical support.

We are looking for an **Assistant Process Safety Consultant** to join the Atkins office in Shanghai. In this position the individual would work on global Oil and Gas projects with colleagues located in other Atkins office around the world.

The successful candidate would be expected to build upon skills attained from the successful completion of an advanced post graduate in Chemical Engineering, through a mixture of on-the-job training and external courses.

**Requirements**

- PhD in Chemical Engineering
- Good English language skills - oral & written communication
- Strong mathematical background, with preferred experience in:
  - Solution of complex fluid dynamics
  - Model development in transport phenomena of multiphase dynamic systems
  - Numerical solution of partial differential equations
- Strong computing skills with working knowledge of:
  - Visual basic
  - MS Word, Excel, Access and Sequel Server
  - Fortran or C++
- Able to competently undertake technical activities with limited supervision.
- Able to present / represent their technical work.
- Able to draft technical reports of acceptable technical and presentational quality - with minimal rework required.
- Responsible for completion of specifically assigned tasks to time and cost.
  - Demonstrate they can be an effective team member able to apply knowledge gained.
  - Capable of simultaneous execution of multiple projects.
  - Capable of developing practical QRA models from theory
- Flexible in working hours when required.
- Flexible in being able to travel internationally when required.
- In addition, the successful candidate will demonstrate an understanding of:
  - Consequence modeling of hydrocarbon release, dispersion, fires and explosions. In addition to having knowledge and practical experience of software used to support consequence modeling.

- Risk analysis and risk management, specifically including Quantitative Risk Assessment (QRA) of Acute Process Hazards, and Statistical modeling related to Probabilistic Risk Assessment.

### **Responsibilities**

- Report to Dongmei Sun
- Predominantly based in our Shanghai office, with periodic travel to the work alongside colleagues in the Houston office.
- Supporting the Houston Safety Group with the generation of innovative in-house tools to enhance consequence modeling capabilities, with the intent of ultimately advancing the technical excellence of the wider Atkins Oil & Gas Division.
- Supporting the Houston Safety Group on projects requiring computer consequence modeling, analysis and interpretation.
- Managing the delivery of your individual project contribution to schedule, cost and quality.
- Production of high quality technical reports and/or presentations to clients.
- You will work with Houston Principal Engineers to develop integrated solutions for clients that will require you to liaise with other departments within Atkins such as structural, dynamic simulation, CFD, reliability, human factors and environment.
- You will work with Principal Engineers within the Houston Structural and Safety Groups to develop integrated solutions for clients.
- Co-Authoring of technical papers for presentation at conferences or publication in peer-reviewed journals
- You will be a vital member of our team and as such you will be encouraged to gain exposure and develop Project Management skills that would ultimately be required to effectively lead small teams of other engineers and gain the experience necessary to progress within the Atkins group.

### **Company Benefits**

- 10 days Paid Vacation
- 11 days paid public holidays
- 10 days paid sick leave
- Life Insurance
- Health Insurance

### **Additional Information**

- There will be a requirement for you to travel periodically to international destinations, including the United States, in support of projects and the generation of technical safety tools.