



## Process Engineer - 2

### General Description

The process engineer is extremely involved in the front-end of projects and then shifts to a support role during the detailed design phase. The process engineer interfaces with the client to understand the goals of the project. Based on the client's needs and desired outcome, the process engineer develops the conceptual design of the project. This requires creativity, good fundamental engineering skills and knowledge of available process technologies.

At the Process Engineer 2 level, work is performed with support of an experienced engineer. The projects are moderate in scope and predefined. Work completed by the Process Engineer 2 is reviewed by an experienced process engineer. The Process Engineer 2 is part of the Process Engineering Group and reports to the Chief Operations Officer. The position will assist and take direction from more experienced members of the process engineering group. The position has no supervisory responsibility.

### Duties & Responsibilities

- Develop the process flow diagram for a moderate sized process system consisting of multiple pieces of equipment.
- Model sections of a process system utilizing simulation software.
- Participates in JIS and client meetings.
- Develop the heat and material balance for a moderate sized process system.
- Run hydraulic calculations to determine pipe sizes.
- Run calculations to size pieces of equipment for a moderate sized project or part of a larger project.
- Develop a Piping & Instrument Diagram for a moderate sized process system.
- Minimal overnight travel may be required.
- Gather plant process data (for example: flow rate, temperature, pressure).
- Generally works on one project at a time.

### Minimum Qualifications

- BS degree in Chemical Engineering, Process Engineering, or equivalent.
- Three to five years of work experience in Process/Design Engineering or related experience.
- Passed the Fundamentals of Engineer exam (FE), or do so within one year of employment.
- Strong oral and written communication skills.
- Proficient computer skills including word processing and creating spreadsheets.
- Working knowledge of HYSIS, STX, Sulsim or another commercially available simulation program.
- Be able to take overnight trips to client sites on an infrequent basis – sometimes on relatively short notice.
- Can maintain a valid driver's license

### Preferred Qualifications

- Experience in an industrial setting (manufacturing facility, oil refinery, chemical processing, mine or mill).
- Process analysis/design engineering experience in one or more of the following areas:



## Position Description

- Petroleum refining
- Gas processing and compressor stations
- Power generation
- Materials handling
- Mineral processing
- Intermediate understanding of economic analysis.
- Membership in a professional association that indicates a commitment to continuing professional development.

### **Classification**

Exempt

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