

FEDERATION ENGINEERING

Job Title	<i>Senior Process Engineer</i>
Reports to	<i>Process Manager</i>
Location	<i>Calgary, AB</i>

Job Purpose

If you are interested in a meaningful job at a growing engineering & construction company in Calgary where you will work on a variety of projects at once and be appreciated daily for doing your job well, look no further! Join our team and discover endless opportunities for learning, advancement, and professional fulfillment!

The process engineer will be engaged in projects ranging from refinery and gas projects, oilsands, power generation, and SAGD, among others. This position will include facility debottlenecking, process simulation, equipment sizing, hydraulic analysis, and the development of PFDs, PIDs and other process engineering documentation. Under the guidance of the Process Engineering Manager, work shall be completed within the project schedule requirements while maintaining high quality. Work will range from conceptual studies through detailed engineering. This individual will also work closely with other disciplines to achieve optimal project outcome.

Key Duties and Responsibilities**Process Design:**

- Process development and solution evaluation for client applications
- Technical and commercial proposal development
- Completing conceptual studies and FEEDs on project opportunities – emphasis on facility debottlenecking
- Ensure process engineering deliverables comply with the project design and operation philosophies established in the design basis and/or performance specifications
- Ensure that the interfaces between process systems and other systems are fully defined and implemented in accordance with project requirements
- Equipment sizing & hydraulic calculations
- Prepare design calculations and design briefs for equipment
- Heat and material balance preparation
- Prepare equipment specifications and datasheets
- Carry out technical evaluations and vendor documentation review
- Communicate with vendors and contractors as required
- Prepare process flow diagrams and piping & instrumentation diagrams
- Participate in process safety engineering (relief load estimation, relief system design, and relief valve sizing and selection)
- Participate in HAZOPs and close out action items
- Write detailed engineering reports, studies, and briefs
- Coordinate with other disciplines to ensure a timely and accurate flow of design information, while ensuring departmental and client standards are maintained
- Develop and recommend improvements in design standards to lower costs, improve work quality and facilitate plant maintenance

Build and Cultivate Client Relationships:

- Engage current and potential clients in the Calgary marketplace
- Cross sell engineering and/or construction services to clients
- Provide exceptional client service – dependable, responsive, sensible

Project Management:

- May be required to act as single point of contact for client in process only projects
- Provide input into estimates for prospective client projects

Office Leadership:

- Contribute to a dynamic workplace culture in Calgary

Other duties and responsibilities as required.

Qualifications

Skills and Experience:

- Degree in Chemical Engineering with 12+ years of experience
- Registered as a P.Eng. with APEGA
- Experience in O&G/Chemical/Petrochemical industries is an asset
- Competency running and analysing outputs of process simulation software (HYSYS, Symmetry, Unisim, PROII, FlareNet, etc.) is an asset
- Experience in leading Pre-FEED, FEED and Detailed Design Phases of a project, preferably on the same project
- Proficient in reviewing process engineering calculations i.e. heat and material balances, hydraulic evaluations, equipment sizing and ratings, relief calculations, etc.
- Experience with process system control design and development of control philosophies
- Knowledge of process safety methodologies (such as HAZOP) is an asset
- Working knowledge of Microsoft Office software (Word, Excel, Outlook)
- Self-starter with the ability to work independently when required
- Strong experiences in interdisciplinary coordination
- Proficiency in MS Office Suite programs used to create reports and documents
- Field or shop experience is an asset
- Valid driver's license required

Personal Characteristics:

- Technically broad-minded, generalist, not afraid of delving into technical issues across the engineering spectrum
- Self-starter, independent worker, dedicated, and dependable
- Decisive, willing to make well reasoned decisions and accountable for decisions
- Strong communicator internally (up and down) and with clients
- Leadership skills desired: high emotional intelligence, high integrity, lack of ego (humility)
- Believes in making long term business relationships with team members and clients – playing for the long game
- Interested in investing in a long-term career with a growing company

Working Conditions

Federation believes in providing flexible working arrangements for our office personnel and we offer a hybrid work schedule; 3 days in the office, 2 days at home or in the office (your choice)

From time to time, travel to client sites or other Federation offices may be required (up to 10%).

Job Types: Full-time, Permanent

Benefits:

- Casual dress
- Company events
- Dental care
- Disability insurance
- Extended health care
- Flexible schedule
- Life insurance
- Paid time off
- RRSP match
- Vision care

Schedule:

- 8 hour shift
- Monday to Friday

Work Location: Hybrid remote in Calgary, AB