



## SENIOR PROCESS ENGINEER

### SUMMARY

Reporting directly to Principal, VP Process Engineering, the Senior Process Engineer has the overall responsibility for the Management and execution of project activities and deliverables related specifically to the Process Engineering scope of work, within the greater project context. Additionally, the role performs a variety of specialized technical duties (Process Design and Optimization, Troubleshooting, etc.) in accordance with company standards and client requirements. The role has close interaction with other members of the Process Engineering Department, other disciplines and clients.

### PRIMARY RESPONSIBILITIES

#### Project Management

- Liaising between clients and operations staff, equipment vendors and third-party contractors in project planning and execution in areas of specialization.
- Conducting independent studies, operating data analyses, interpretations and conclusions within the scope of various assigned projects.
- Drawing from previous experience and technical expertise; provide pro-active and independent recommendations to clients.
- Coordinating completion of Process Engineering tasks and deliverables with other engineering disciplines within OEL.
- Managing Process personnel and providing oversight and mentoring through the execution of multiple client projects.
- Plan, coordinate and review engineering requirements and responsibilities between disciplines on projects and individual assignments.
- Provide comprehensive Process Engineering services according to project or assignment criteria to achieve safe, cost-effective and efficient project outcomes.
- Prepare and implement project scope specifications, manpower / cost estimations and budgetary support for project controls.
- Knowledge of and ability to support Management of Change (MOC) processes.
- Provide input on equipment design and materials selection, and Process Engineering deliverables in accordance with project requirements.
- Participate in the ongoing development of OEL engineering standards and procedures.
- Provide input and direction to drafting leads and project administration staff, as required.

## Technical

- Providing competent and independent technological advice and direction within the Process Engineering Group, as well as to other departments.
- Able to take professional responsibility for authentication (stamping) of Process design work and drawings.
- Completing conceptual and detailed process engineering designs for new facilities, as well as additions/changes to existing facilities.
- Conducting system capacity and debottlenecking studies for existing oil and gas production, processing and transportation facilities and pipelines.
- Participate in / prepare FEED studies and project proposals and reports for the aforementioned scopes of work
- Able to carry out and evaluate detailed equipment and system design calculations, utilizing a variety of tools from spreadsheet-based, to rigorous process simulation methods (Hysys, VMGSim, PipeSim, etc.)
- Ensuring that process designs meet recommended and required safety standards through active participation in HAZOP and similar Design and Operability Reviews.
- Provide process specifications for the design and operation of equipment.
- Creating, reviewing and revising PFDs, P&IDs, Heat & Material Balances, equipment data sheets, Control Philosophies and Narratives, as well as Shut Down Keys.
- Developing Design Basis Memorandums (DBM), Project Execution Plans (PEP).
- Providing mentorship, technical oversight and support to other Process Engineers and project staff as needed.
- Knowledgeable in applying relevant design standards, regulations, codes and guidelines applicable for tasks, and identify areas of deviation or concern.
- Troubleshooting, utilizing technical expertise and providing independent recommendations/solutions to clients.
- Ensuring and maintaining the quality of Process Engineering work and deliverables within the project.

## KNOWLEDGE AND SKILL REQUIREMENTS

- Chemical Engineering degree from an accredited university with 15 years relevant experience.
- Registration as a Professional Engineer with APEGA.
- Must have strong oral and written communication and interpersonal skills
- Previous comparable EPCM experience is a necessity.
- Field / Operational exposure and Troubleshooting experience is essential
- Travel as required to field locations to ensure the successful execution of projects.

- Substantial Process design experience within the conventional upstream oil and gas market; with specific exposure to sweet and sour gas plants and oil facilities
- Proficient in review and development of PFD's, P&ID's, equipment design and sizing, as well as HAZOP and general troubleshooting support.
- Ability to prepare and evaluate Process simulations using HYSYS, VMGSim, PipeSim
- Knowledge of applicable provincial and federal design codes and safety regulations.
- Mature experience in engineering work planning, risk management and project control methods.
- Experience making independent decisions within area of expertise.
- Strong analytical and problem-solving capabilities.
- Ability to effectively collaborate and communicate with personnel and clients
- Willingness to work and adapt in a flexible, fast-paced environment.

**Please note that only candidates with the required experience and accreditations will be considered.**