



Title: Senior Project Engineer, Pipelines

Location: Surrey, BC

Job Summary:

The Senior Project Engineer, Pipelines provides engineering expertise and leadership, design engineering and other professional services primarily focused on Capital Sustainment Pipeline projects and operations support activities for FortisBC. The primary focus for this position is to represent the organization's technical interest and work effectively with internal stakeholders and external resources to provide scopes of work, estimates, construction packages, construction support and documentation close out for various capital projects from an engineering perspective. Capital projects include new pipeline systems and related infrastructure, and modifications to existing pipelines for gas transmission pressure (TP), intermediate pressure (IP) and distribution pressure (DP). Additional scope of this position includes, but is not limited to, design activities, operational support, and development and maintenance of standards. This will be achieved by working with a team of engineers and professional support staff in a high paced and demanding environment.

Key Accountabilities:

Leads engineering assessments and scoping studies including economic, feasibility and risk assessments for difficult, complex or unusual problems using originality and ingenuity to devise practical and economical solutions in order to make recommendations to internal clients as to preferred alternatives;

Develop and implement Scope of Work documents for engineering services contracts for cost estimation, schedule estimates, detailed design and construction activities, ensuring the services provided are reviewed and accepted;

Oversee and direct the work of internal engineers, technologists, designers, drafters, and external resources in the engineering process including:

- a) development of project costs, schedule estimates and construction feasibility and ensuring completion of technical supporting documentation meeting all AACE Class level project definitions;
- b) detailed engineering design activities including materials and equipment specifications, Issued for Construction (IFC) documentation, work procedures, and commissioning procedures;

- c) onsite construction monitoring and troubleshooting support, witness testing and commissioning procedures;
- d) completion of as constructed drawings and delivery of all project engineering documentation for close out;

Ensure all engineering and design activities are in full compliance with regulations, codes, standards and guidelines as they apply to the design, environment, safety, regulatory and other stakeholders of new or upgraded facility projects and FortisBC operating practices.

Coordinate efforts at all levels of technical specialists and other business leads, including Operations, Environmental, Property Services, Community Relations etc. to review and approve supporting deliverables for project development, detailed design and close out.

Support Engineering Supervisor/Manager in the business activity and provide engineering support to internal and external stakeholders when assigned to.

Represent the organization's technical interest at meetings, hearings and conferences with external agencies, organizations, commissions, municipalities and others related to regulatory and industry changes in business practices, company strategy and industry positioning and planned projects;

Develop and update internal technical standards on behalf of the Engineering Department and act as the subject matter expert in standards related to pipeline assets maintenance and design;

Mentor and coach staff by addressing questions and queries, explain technical requirements, validate work according to standards to maintain quality and integrity of designs, and provide performance feedback;

Act as Lead Project Engineer or Engineer of Record (EOR) for projects where the Project Engineer is taking technical responsibility for the design by stamping; and

Provide technical support for the Operations Group.

Education and Experience:

Bachelor's degree in Mechanical, Chemical or Civil Engineering from an accredited post-secondary academic institution with 8-15 years of recent and related experience;

Knowledge of natural gas pipeline and facilities systems and construction practices;

Certified or eligible for registration as a Professional Engineer with the Engineers and Geoscientists of British Columbia.

Technical Competencies:

- Knowledge of BCUC regulatory mandate and processes
- Demonstrated comprehensive understanding of all the engineering disciplines and principles needed to design, procure, construct and operate a natural gas pipeline system or can identify where consultation with subject matter experts is warranted
- Demonstrated ability to lead others within a non-union and/or a unionized environment
- Demonstrated leadership skills – ability to provide clear focus and direction to meet objectives
- Demonstrated ability to work independently and as a member of a team
- Demonstrated ability to take initiative, analyze and solve problems with a positive attitude. This involves working proactively with little direction
- Demonstrated ability to effectively manage multiple projects and related costs
- Demonstrated ability to plan, organize and execute work on time and on budget
- Demonstrated ability to think strategically
- Demonstrated ability to manage competing priorities and demanding work schedules
- Demonstrated ability to communicate effectively both verbally and in writing, and conducting presentations
- Demonstrated knowledge of computer systems and sound working knowledge of data processing and specialized software
- An approachable interpersonal style with the ability to interact effectively with other team members and external contacts