

Federation Engineering

Job Title	<i>Junior Structural Engineer</i>
Location	<i>Calgary or Edmonton, AB</i>

Job Purpose

The junior structural engineer will be engaged in projects ranging from refinery and gas projects, oilsands, and SAGD, among others. This position is responsible for conducting detailed calculations and designs pertaining to structural engineering activities, and any additional tasks as directed by Sr. Structural Engineers. Under the guidance of our Structural Engineering Manager, the Junior Structural Engineer will complete work within the project schedule requirements while maintaining quality of work from conceptual studies through detailed engineering. This individual will also work closely with other disciplines to achieve optimal project outcomes.

Key Duties and Responsibilities

Structural Design:

- Provide civil and structural support to the multidiscipline team, ensuring that technical excellence, cost, schedule, and contractual requirements are achieved
- Work closely with the design team to ensure working plans and technical drawings meet project specifications and goals
- Execute structural engineering activities with the objective of meeting scope, codes, standards, and company procedures
- Perform calculations and develop material takeoffs and cost estimates
- Provide detailed reviews of project structural design specifications and drawings, and standard detail drawings
- Carry out technical evaluations and vendor documentation review
- Communicate with vendors and contractors as required
- 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

Other duties and responsibilities as required.

Qualifications

Skills and Experience:

- Graduate of a recognized university with a bachelor's degree in Structural / Civil Engineering or equivalent with 3 - 5 years of experience
- Registered as an EIT or P. Eng. with APEGA and/or APEGS
- Experience in O&G/Chemical/Petrochemical industries is an asset
- General exposure to oil & gas facility design including, oilsands and SAGD projects
- Excellent knowledge of structural theory and working knowledge of building codes
- Proficiency in MS Office Suite programs used to create reports and documents
- Self-starter with the ability to work independently when required
- Strong experiences in interdisciplinary coordination
- Valid drivers 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), ½ day Fridays.

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

For all interested applicants, please send your cover letter and resume to leo@ssrhr.ca.