

## Federation Engineering

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| <b>Job Title</b> | <i>Instrumentation &amp; Controls Engineer</i> |
| <b>Location</b>  | <i>Calgary or Edmonton, Alberta</i>            |

### Job Purpose

**This is an exciting opportunity to play a key part in the evolution of Federation! We are looking for a team player with broad instrumentation and controls experience in industrial, oil & gas projects. Our ideal candidate comes with client-facing and team-leading abilities along with aspirations to help the Federation team maintain and grow their positive work environment.**

The instrumentation & controls engineer will be engaged in projects ranging from refinery and gas projects, oilsands, energy generation, and SAGD, among others. This position will include design for integration, generation of reports and analysis, and any additional tasks as directed by their 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

#### Design:

- Independently execute the I&C design and engineering activities for industrial and oil and gas projects
- P&ID development and design
- Develop cause and effect matrices, system narratives, control philosophies, and alarm lists
- Create and review instrument indexes, loop diagrams, datasheet and sizing
- Create and review I/O count and assignments, control system drawings, and control schematics
- Prepare RFQs and purchase orders as required for instrumentation and control systems hardware
- Carry out technical evaluations and vendor documentation review
- Communicate with vendors and contractors as required
- 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

#### Build and Cultivate Client Relationships:

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

#### Office Leadership:

- Contribute to a dynamic workplace culture
- Provide mentorship to junior team members

Other duties and responsibilities as required.

## Qualifications

### Skills and Experience:

- Relevant bachelor's degree in engineering or engineering technologies diploma is required
- Registered as a P.Eng. or P.L. Eng. with APEGA and/or APEGS is required
- 8+ years working within the I&C engineering discipline with at least 2 years as a project discipline lead
- Experience working on Management of Change (MOC) projects in an EPC environment
- Experience in O&G/Chemical/Petrochemical industries is an asset
- DCS / PLC / Controls experience
- Working knowledge of SmartPlant Instrumentation (SPI) would be considered an asset
- Familiarity with CEC and international codes, standards, and approved codes of practice
- 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

### 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](mailto:leo@ssrhr.ca).