

Federation Engineering

Job Title	<i>Electrical Engineering Lead</i>
Location	<i>Calgary or Edmonton, AB</i>

Job Purpose

The **Electrical Engineering Lead** is a key hire for Federation's growth plans. Federation is looking for someone with a deep level of experience managing all aspects of an electrical, instrumentation, and controls (EIC) engineering team that interfaces with project management and construction teams.

This is an opportunity to be part of our Federation's leadership team that is experiencing significant growth. Federation wants to add a strong leader that is capability of managing and organizing a growing EIC team, execute and review electrical engineering scopes of work & deliverables, collaborate with the existing management team on strategy, and support business development initiatives to grow our client base and to grow the overall project portfolio. This individual will also work closely with other disciplines to achieve optimal project outcome.

The EIC team is currently engaged in projects ranging from refinery and gas projects, oilsands, energy generation, and SAGD, among others. Work will range from conceptual studies through detailed engineering including electrical design for integration, generation of reports and analysis, use of CAD Software to generate electrical drawings, and any additional tasks as directed by the Project Lead.

Key Duties and Responsibilities

Team Leadership:

- Provide inspirational leadership to electrical team, acting with integrity and humility
- Provide mentorship and technical / career development guidance for electrical team members
- Manage personnel in accordance with best practices and company values
- Attract/recruit top performers to meet staffing plan

Electrical Design and Project Management:

- Develop electrical design for industrial and oil and gas facilities
- Create power system drawings, such as single line diagrams, MCC layouts, cable schedules, and contactor panel wiring schematics
- Create control system drawings, PLC/DCS cabinet layouts, control schematics, and wiring schematics
- Prepare equipment specifications and datasheets
- 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
- Develop and recommend improvements in design standards to lower costs, improve work quality and facilitate plant maintenance
- May be required to act as single point of contact for client in electrical-only projects
- Provide input into estimates for prospective client projects

Other duties and responsibilities as required.

Qualifications

Skills and Experience:

- Degree in Electrical Engineering with 12+ years of experience
- Registered as a P.Eng. with APEGA
- Experience working on Management of Change (MOC) projects
- Experience in O&G/Chemical/Petrochemical industries is an asset
- Working knowledge of the preparation of demand load calculations, voltage drop calculations and cable tray fill calculations
- Working knowledge of ETAP or SKM electrical engineering software is 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
- 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 hello@federationengineering.com