

Intermediate Electrical Engineer

Electrical Engineer to work in a multidisciplinary team providing electrical engineering expertise, oversight, and coordination for the design and construction of renewable energy projects.

Duties

- Identify key project issues early during development and construction and develop strategies to maintain project schedule, quality and performance requirements, and project economics.
- Preliminary engineering activities including single line diagrams, design criteria, equipment sizing and specifications, layout design and optimization, energy assessments, drafting coordination, and design calculations for plant electrical systems, substations, collector systems, control and protection as required to support project development including regulatory technical submissions.
- For larger projects, coordinate the detailed electrical engineering, generally by electrical subconsultants, including reviewing the work for compliance with the project goals, and coordinate such review with the other engineering disciplines as required. For smaller projects, complete electrical designs as within the expertise of the candidate.
- Perform and provide input to project cost estimating, including the development of quantities for electrical scope to support project base line cost estimates, construction cost control updates, and comparison of alternatives for optimization of the electrical design for and overall project.

Qualifications

- Extensive electrical engineering experience covering generation equipment (hydropower, wind, and solar), station service power systems, substations and distribution networks including interconnection, medium and high voltage environments. Experience or a good understanding of protection and control systems, low voltage, systems and SCADA is an asset.
- Electrical Engineer with 10 years' experience in Canada and at least 5 years consulting engineering experience working in a multidiscipline engineering environment capable of working on several major projects simultaneously.
- Professional Engineer member of Professional Engineers and Geoscientists of Alberta. Membership in other provinces and territories an asset.
- Field construction and commissioning experience including monitoring, reporting, and troubleshooting.