



Unit Electrical Engineering Ltd.

POWER UP!

Electrical Engineer

UEE provides custom electrical solutions for mining, oil & gas, industrial and commercial, transportation and resource applications.

As part of the engineering team, the Electrical Engineer is responsible for all aspects of electrical design for projects. The Electrical Engineer develops and prepares solutions to technical matters, ensuring solutions meet the unique requirements of our customer.

Job Duties

- Technical peer review of designs produced in the electrical design team.
- Technical interface with the shop floor for manufacturing support.
- Compliance with specifications, codes, and work order requirements.
- Report work compliance with relevant codes, standards and procedures.
- Provide designs such items as cable tray layouts, electrical equipment arrangements, and single line, three line and protection and control, P & ID diagrams.
- Provide electrical calculations such as short circuit, load flow, arc flash, coordination studies, etc.
- Prepare specifications for purchase of materials and equipment.
- Operate computer-assisted engineering and design software such as AutoCAD & EDSA, E-TAP.
- Provide expertise and guidance in the identification, analysis and resolution of problems.
- Create technical reports, documentation, calculations and sketches.
- Develop sustainable work relationships to ensure positive resolutions with all contacts.
- Perform electrical studies as assigned.
- Create conceptual designs for assigned projects.
- Create specifications as needed.
- Oversee the implementation of designs.
- Maintain up-to-date electrical engineering knowledge and stay current with industry trends and best practices.

Requirements

- Registration with APEGBC as P.Eng.
- Bachelor' degree in Electrical Engineering required.
- Masters degree in Electrical Engineering preferred.
- Demonstrated understanding of engineering theories and principles.
- Previous supervisor experience.
- Strong presentation, oratory, and verbal skills.
- Able to communicate ideas and recommendations to non-engineer team members in a clear manner.



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- Demonstrated knowledge of Canadian electrical standards.
- Work experience designing HV substations, hydroelectric plants, MV and LV distribution systems, and large electrical systems required.
- Work experience with fire alarms, lighting and emergency power generation preferred.
- Demonstrated knowledge of required code for operation's geographical area.
- Able to effectively communicate both verbally and in writing with all levels of the organization, including executives.
- Strong problem identification and problem resolution skills.
- Able to apply right mathematical methods and formulas to problem solving.
- Able to create alternative solutions to problems.
- Excellent time management and project management skills.
- High level of sound and independent judgment and reasoning.
- Ability to interpret and implement company policies and procedures.
- Demonstrated ability to exercise necessary cost control measures.