

Design Engineer (Electrical)



Engineering Office
Full-Time Indeterminate position (1 Position)

About Us

SNOLAB is a unique world-class international facility for deep underground scientific research. Located 2km underground in the Vale Creighton mine, near Sudbury, Ontario, SNOLAB hosts a suite of surface facilities and laboratories including a 5000m² clean room underground. The science programme at SNOLAB is primarily focused on subatomic and astroparticle physics, specifically the search for dark matter and neutrino studies.

The Position

The Design Engineer is responsible for the design and implementation of engineering projects such that they meet the needs of clients and stakeholders. Design Engineers actively make use of engineering tools and methods, applicable standards and legislation as well as collaboration with and input from cross-functional teams with diverse skill sets. The Engineering Office provides engineering services, including design, consulting and project management, to both the SNOLAB facility, and to the experimental collaborations for experiments hosted at SNOLAB. The position will report to the Manager of the Engineering Office. The position includes, but is not limited to the following responsibilities:

- Develop, configure and optimize electrical systems from inception through start up in accordance with engineering principles, regulation, best practices and client requirements;
- Design of industrial electrical power distribution systems from source through to point of use;
- Design cable routes and develop physical layouts including height, spacing and location parameters;
- Evaluate electrical products, components, and applications as appropriate for use in designs and systems at SNOLAB;
- Design process control strategies through various means including Distributed Control Systems (DCS);
- Travel to and work within the SNOLAB underground facility as needed

Criteria

Education:

A degree in Electrical Engineering with P.Eng, or eligible for P.Eng.

Experience:

Experience in electrical design including with the aid of software such as AutoCAD;

Experience in the preparation of electrical drawings (eg. circuit wiring, SLD, control loop);

Experience with electrical equipment (eg. transformers, generators, power filters, UPS);

Experience with various electrical design standards and regulation (eg. CEC);

Experience with electrical power interference issues (eg. electromagnetic EMI, harmonics);

Experience with industrial control systems (eg. DCS, PLC, SCADA)

Salary Range

Salary will be determined by qualifications and experience and includes an attractive benefits package. Relocation assistance will be determined in accordance with SNOLAB policies.

To Apply

All applications must be submitted to jobs@snolab.ca. **Please do not fax or mail your applications.** By applying to the e-mail address, your application becomes available to managers immediately. Interested candidates should include a cover letter and resume.

Closing Date

The posting will remain open until the position is filled, but review of applications will commence June 14, 2018. SNOLAB thanks all applicants for their interest, however, only those candidates considered for an interview will be contacted.

SNOLAB is committed to equity in employment and encourage applications from all qualified applicants, including women, aboriginal peoples, members of visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

SNOLAB will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs.

Further information about SNOLAB may be found at www.snolab.ca

Posting Date: May 31, 2018