



## EMPLOYMENT OPPORTUNITY

**Closing Date:** 18.11.2024

### PROFESSIONAL ENGINEER WINNIPEG, MG

*Manitoba Hydro is consistently recognized as one of Manitoba's Top Employers!*

#### **Great Benefits**

- Competitive salary and benefits package.
- Defined-benefit pension plan.
- Nine-day work cycle which normally results in every other Monday off, providing for a balanced approach to work, family life and community.
- Flex-time and partially remote work schedule (providing the option to work remotely 3 days per 2 week period), depending on nature of work, operational requirements and work location.

Manitoba Hydro is a leader among energy companies in North America, recognized for providing highly reliable service and exceptional customer satisfaction. Join our team of Manitoba's best as we continue to build a company that supports innovation, commitment, and customer service, while actively supporting a diverse, equitable and inclusive workplace.

We are seeking a Professional Engineer to work in the Station Design Department. Under the general direction of the Automation & Controls Engineer or delegate, prepare detailed design drawings and programming, and provide support for complex protection, control, and metering systems for high voltage AC transmission, distribution, hydro generating, HVDC converter, and diesel generating stations.

#### **Responsibilities:**

- Supervise design teams of technical assistants, engineering support staff, and consultants in the design and preparation of drawings, bills of material, estimates, memos, specifications, and material requisitions related to protection, control, and metering systems associated with high-voltage AC substations and diesel generating stations.
- Provide design expertise on electrical aspects of control, metering, and auxiliary systems of new and existing stations, and conduct drawing reviews to ensure completeness prior to design approval.
- Prepare specifications, analyze tenders, and initiate a recommendation for the purchase of materials, with follow-up involving the review and approval of manufacturer's documentation and design, determining and assisting with shop or field tests, and liaising with suppliers as required.
- Monitor and report project progress, and as required, initiate corrective actions to ensure budget and in-service goals are met.
- Consult with other design sections, coordinate, and design the interface for digital control and metering systems with protective relays, Remote Terminal Units (RTU), and Human Machine Interfaces (HMI) for the purposes of integrated substation automation design.
- Assist in the development of standards for substation control and metering with a continuing review of same to ensure designs are current with technology, are cost effective, and satisfy end user requirements.
- Assist in the write-up of commissioning and testing procedures for substation control and metering systems.
- Provide training, work guidance, and on-site assistance when necessary to construction and commissioning staff in areas of expertise.
- Meet with manufacturers' representatives, consultants, contractors, and Enterprise personnel from other divisions as required to satisfy station design requirements.

#### **Qualifications:**

- Graduate in Electrical Engineering from a university of recognized standing with a minimum of six years of experience, of which two years are directly related to high voltage transmission, distribution, hydro generating and diesel generating stations protection, control, and metering design.
- Professional membership in Engineers Geoscientists Manitoba.
- Must obtain and maintain a current Personnel Risk Assessment and a "Clear" security rating in accordance with Manitoba Hydro policy P513.

- Demonstrated working knowledge and experience in interfacing of Programmable Logic Controllers compliant with IEC1131 and meter systems for remote data interrogation and station integration.
- Demonstrated working knowledge and experience in electro-mechanical, solid state, and digital relay technology and applications on AC system protection.
- Demonstrated working knowledge of protection, control, and automation circuitry, including electro-mechanical, electronic, and microprocessor-based technologies and digital communications as applied to the design of complex protection, control, metering, and interlocking schemes associated with high voltage AC distribution, transmission, converter, hydro generation, and diesel generating stations.
- Demonstrated understanding of Bulk Electric power systems and procedures used in their operation, maintenance, and construction practices as related to protection, control, and operational metering systems.
- Working knowledge of the Canadian Electrical Code.
- Demonstrated interpersonal skills with the ability to provide guidance and technical assistance to others.
- Demonstrated initiative in handling involved and complex technical problems.
- Possess a valid Province of Manitoba Driver's Licence.

### **Salary Range**

Starting salary will be commensurate with qualifications and experience. The range for the classification is \$46.06-\$63.58 Hourly, \$88,251.02-\$121,841.46 Annually.

### **Apply Now!**

Visit [www.hydro.mb.ca/careers](http://www.hydro.mb.ca/careers) to learn more about this position and to apply online. The deadline for applications is **NOVEMBER 18, 2024**.

We thank you for your interest and will contact you if you are selected for an interview.

***This document is available in accessible formats upon request. Please let us know if you require any accommodations during the recruitment process.***