



## EMPLOYMENT OPPORTUNITY

**Closing Date:** 10.02.2025

# SENIOR ELECTRICAL ENGINEER WINNIPEG, MB

*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 Senior Electrical Engineer to join our Generation Design Department. Under the general direction of the Team Lead or delegate, you will provide technical expertise in and lead the planning, procurement, design, construction, and commissioning of hydraulic generators, generator refurbishment, generator automation, control, metering, and auxiliary systems for all generation stations. In collaboration with other engineering groups, you will lead technical discussions to ensure that these systems meet technical requirements and industry regulations and provide long-term system reliability.

### Responsibilities:

- Prepare and oversee the preparation of scope development, designs, specifications, reports, standards, and programs for hydraulic generator refurbishment, new generators, generator automation, control, monitoring, and auxiliary systems for new and existing generating stations to ensure quality standards and design criteria are met by project teams, consultants, suppliers, and contractors.
- Serve as an on-site technical expert to assist or lead the commissioning of generators and auxiliary systems.
- Take the lead design engineer role and perform a coordinating function on complex and multidisciplinary projects.
- Mentor and develop junior engineers in the areas of design work in high profile strategic projects.
- Act as a specialized resource to the enterprise in handling complex technical/business problems and analysis, including performing complex computer calculations to verify generator parameters.
- Liaise with other departments, divisions, and business units for correlation of design criteria and data and to ensure that construction and commissioning meet the design standards.
- Lead evaluation of proposals, compile final recommendations, and manage design work performed by external engineering consultants.
- Review and approve shop and design drawings, witness manufacturer's factory and site tests, and liaise directly with suppliers, contractors, and consultants to ensure they meet design criteria, industry standards, and regulatory requirements.
- Maintain an advanced awareness and understanding of applicable engineering/safety standards and legislation at a Provincial and National level.
- Contribute to strategy development and lead development of design standards with respect to hydraulic generator design and various generator control equipment.

### Qualifications:

- Graduate in Electrical Engineering from a university of recognized standing and a minimum of seven years of electrical design experience, including four years of experience in the design of hydraulic generators and associated generator control equipment.
- Professional Member in good standing with Engineer Geoscientist Manitoba.
- Advanced knowledge of hydro-generator design and construction as it relates to generator overhauls.

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- Advanced knowledge of generator and generator auxiliary systems operation, especially related to generator commissioning.
- Working knowledge and understanding of generating station controls, joint controls, excitation, and governing systems.
- Working knowledge and understanding of UCMS, generator protection, transformers, station service systems, generator switchgear, and station 125/250 Vdc systems.
- Working knowledge and understanding of Arc Flash Hazard Analysis and assessments.
- Willingness to travel to generating stations and perform commissioning activities as required.
- Advanced knowledge and understanding of the safety rules and operation of hydraulic generating stations.
- Advanced knowledge of the Manitoba Electrical Code and IEEE/IEC hydro-electric generation, monitoring, and control standards.
- Proven ability to determine design details for major equipment in conjunction with manufacturer's engineers.
- Proven ability to work effectively with various disciplines on multidisciplinary projects.
- Demonstrated ability to communicate effectively, both orally and in writing, with technical and non-technical project stakeholders.
- Possess and maintain 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 \$51.34-\$70.34 Hourly, \$98,380.88-\$134,784.78.

### **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 **FEBRUARY 10, 2025**.

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.***