



EMPLOYMENT OPPORTUNITY

Closing Date: 14.07.2025

HVDC DESIGN 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 HVDC Design Engineer to join our Station Design Department. Under the general direction of the HVDC Principal Automation & Controls Engineer or delegate, act as a specialist providing technical expertise and guidance to stakeholders and designers on the technical standards and requirements for the design of HVDC systems and controls. Provide direction and technical expertise to other engineers and technical staff in the preparation of designs and specifications for High Voltage Direct Current (HVDC) systems, controls, protection, and related auxiliary systems.

Responsibilities:

- Perform and/or lead teams responsible for the design, specification, tender analysis, acceptance testing, and support commissioning of HVDC systems and controls & protection for the Corporation's HVDC facilities.
- Develop Conceptual Design Reports that specify the concepts, technology, architecture, and requirements for HVDC systems, controls, protection, and auxiliary equipment.
- Prepare and direct preparation of engineering packages for the installation or modification of HVDC controls, protection, and auxiliary equipment.
- Review and accept consultant's designs and reports ensuring compliance with project specifications and standards.
- Lead and direct project team deliverables and maintain accountability in terms of meeting committed schedules and estimates.
- Provide technical expertise in the design of HVDC systems to stakeholders in AP&D and Operations.
- Prepare scope and cost estimates for input into capital project justifications associated with the proposed modification, replacement, or addition of HVDCs systems, control, protection, and auxiliary equipment.
- Design custom electronic equipment, supervising the preparation of drawings and other design documentation.
- Liaise and coordinate with other groups within the Corporation, external consultants, manufacturers, suppliers, and contractors.
- Develop and prepare specialized commissioning and acceptance test procedures for the installation or modification of HVDC systems, control, protection, and auxiliary equipment.

Qualifications:

- A Bachelor Degree in Science in Electrical/Computer Engineering from a University of recognized standing with a minimum of seven years of directly related experience including a minimum of two years' experience directing Engineers, Technologists, Technicians, and Engineering Aids.
- Advanced knowledge of HVDC technology and HVDC controls including both modern digital systems such as those used in Bipole three and legacy analog systems such as those used in Bipoles one and two.
- Professional member in good standing with Engineers Geoscientists Manitoba (or willingness and ability to attain within a specified amount of time).

- Advanced knowledge of the control and protection of synchronous condensers.
- Software and hardware design experience related to programmable logic controllers used for closed loop control, sequence control, and monitoring systems.
- Experience in analysis and design of analogue and digital electronics used for closed loop control, sequence control, and monitoring systems.
- Field experience with installation, commissioning and maintenance of the above mentioned systems.
- A working knowledge in construction or maintenance of HVDC facilities would be an asset.
- Demonstrated ability in planning, organizing and directing engineering work involving a high degree of specialization.
- Demonstrated effectiveness in carrying out complex projects and tasks with minimum supervision.
- Possess and maintain a valid Province of Manitoba Driver's Licence.
- Required to travel by all modes of transportation i.e. air, land and water.

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 Annually.

Apply Now!

Visit www.hydro.mb.ca/careers to learn more about this position and to apply online.

The deadline for applications is JULY 14, 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.