



EMPLOYMENT OPPORTUNITY

Closing Date: 07.05.2024

PRINCIPAL HVDC AUTOMATION & CONTROLS 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.

We are seeking a Principal HVDC Automation & Controls engineer to join our Station Design Department. Under the consultative direction of the Automation & Controls Engineering Section Head, provide leadership and technical expertise, and act as senior specialist and consultant in developing standards and leading the work in HVDC Station control, protection, and automation systems. You will act as the technical lead representing Engineering and Station Design Department in project activities for the HVDC Modernization activities.

Responsibilities:

- As Senior HVDC Automation & Controls Engineer, be responsible for project groups and individual contributors consisting of Professional Engineers, Technical Officers, and Technical Assistants, having the overall responsibility for following:
 - Act as the senior HVDC specialist related to design in HVDC converter stations. Provide corporate level expertise and consulting services in the field of HVDC systems to the Asset Planning and Delivery and Operations Business Units.
 - Plan and manage work team activities, design deliverables, and maintain accountability in terms of meeting committed schedules and estimates. Establish clear statements for staff on the scope, schedules, priorities, and deliverables for each project/assignment. Coordinate work team efforts to ensure consistency, efficiency, and achievement of committed deliverables.
 - Consult and coordinate with internal project managers, contract management specialists, construction, commissioning, and other project stakeholders throughout the corporation, as well as external consultants on project activities to ensure that all share a common understanding of project requirements and deliverables.
 - Provide direct support in the procurement of major HVDC apparatus and control & protection equipment and direct the preparation of specifications and analysis of tenders for purchase of system hardware, software, and associated materials.
 - Direct the research and development of techniques, concepts and standards related to design of HVDC station controls, plus the adherence to existing standards, practices, and procedures, to ensure they meet the required performance objectives.
 - Participate in external Technical Societies and Standards Organizations related to HVDC systems.
 - Assist the Department Manager with department/divisional administrative and strategic assignments, including key process improvement initiatives.
 - Lead, provide strategic direction, direct and mentor the development of technical staff as required.
- As Senior HVDC Automation & Controls Engineer, responsible to be the primary point of contact for the Engineering Division and Station Design Department related to the HVDC Modernization activities:
 - Provide technical leadership and consulting services for the project.
 - Provide HVDC concept and detailed design services to the project, which may include executing procurements, managing internal resources as well as consulting and contracting personnel as required.

Qualifications:

- Graduate in Electrical Engineering from a University of recognized standing with a minimum of nine years directly related

experience including a minimum of three years of supervisory experience directing engineers, technical staff, and engineering consultants.

- Advanced knowledge of HVDC technology and HVDC controls including both modern digital systems such as used in Bipole 3 as well as electronic HVDC controls and equipment as used in Bipoles 1 & 2.
- Advanced knowledge of the control and protection of synchronous condenser machines.
- Demonstrated HVDC design experience including protection, control, metering, interlocking, control building and associated electrical design, panel layout, and associated wiring and cabling design practices.
- Experience with all types of HVDC substation apparatus and equipment up to 500 kV, including their operating characteristics, protection, and control requirements.
- A broad understanding of the roles and challenges in various design and related areas internal and external to the department such as Planning, Construction, Commissioning, Operating and Maintenance.
- Demonstrated ability to provide mature leadership in planning, organizing, and directing the activities of a group of highly skilled engineers, technical officers, technicians, and engineering consultants.
- Demonstrated ability to motivate others and a high degree of initiative.
- Demonstrated ability to communicate tactfully in all circumstances with internal stakeholders and external consultants, negotiate successfully under potentially difficult situations and maintain harmonious and effective working relationships with others at all levels of both internal and external organizations.
- Demonstrated ability to work effectively on inter-departmental committees, project teams and task forces.
- Thorough knowledge of corporate procedures, policies, and regulations.
- Professional Member in good standing with Engineers Geoscientists Manitoba.
- 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 \$54.45 - \$74.59 Hourly, \$104,332.02 - \$142,935.78 Annually.

Apply Now!

Visit www.hydro.mb.ca/careers to learn more about this position and to apply online. The deadline for applications is **MAY 7, 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.