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Manitoba Hydro
energy for life

EMPLOYMENT OPPORTUNITY

Closing Date: 30.04.2024

NETWORK STUDY 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.

The System Performance Department is seeking a permanent Professional Engineer to join our team in Winnipeg, Manitoba.

Responsibilities:

- Perform day ahead studies to identify the next day system operating issues and provide the recommendations and mitigations to System Control Centre.
- Perform load flow and transient stability, or other power system studies, to determine and recommend the power transfer limits of existing and proposed interconnections with neighbouring utilities.
- Assist in the formulation of, and recommendations for, operating guidelines defining interchange limits within the Manitoba system.
- Study the behaviour of the major AC and HVDC system during disturbances and prepare recommendations for corrective action.
- Participate in major system tests by studying and defining operation limitations, monitoring electrical quantities, and verifying results.
- Develop, perform, or direct staff to issue dispatcher daily power flow, temporary operating instructions, and contingency plans to System Control Staff for each operating day to System Control staff, MISO Reliability Coordinator and neighboring Balancing Authorities and Transmission Operators (IESO, SPC, MPC).
- Responsible for engineering review of the base power flow model such that the model provides accurate and reliable security analysis for day-ahead and real-time operations of the 24 kV, 66 kV, 115 kV, 230 kV and 500 kV systems.
- Participate in the review and comment on proposed electrical system expansion plans and reports with the view that system operating requirements are satisfied.
- Participate as required on inter-utility study task forces and committees concerned with defining interconnection power transfer limits.
- Prepare formal reports and technical memorandums.
- Assist in the Supervision of engineering support staff including summer students as required.

Qualifications:

- Graduate in Electrical or Computer Engineering from a University of recognized standing and a minimum of six years of related experience in power systems engineering.
- Membership in Engineers Geoscientists Manitoba.
- Demonstrated ability to effectively use computer programs intended for power system simulation.
- Demonstrated ability to develop computer models to analyze power systems.
- Knowledge of extra provincial transmission operation would be an asset.
- Knowledge of programming languages would be an asset.
- Demonstrated ability to perform system studies using PSS/E and DSA tools.

MANITOBA HYDRO IS COMMITTED TO DIVERSITY AND EMPLOYMENT EQUITY

- Demonstrated ability to analyze power systems.
- Possess initiative and mature judgment with the ability of making and implementing sound decisions.
- Willing to represent the corporation on external committees and working groups.
- Tactful and diplomatic with the ability to gain the confidence of others.
- 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 to learn more about this position and to apply online.
The deadline for applications is **APRIL 30, 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.