



EMPLOYMENT OPPORTUNITY

Closing Date: 2024/11/12

PROFESSIONAL ENGINEER (ELECTRICAL) 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 Professional Engineer to work in Grid Infrastructure Planning Department. Under the general direction of the Senior Planning Engineer, is responsible for conducting planning studies for the expansion of the 66 kV and 33 kV systems in Manitoba and recommend system improvements and enhancements to ensure economic, reliable, and adequate customer supply.

Responsibilities:

- Perform and oversee system studies to assess the reliability and adequacy of Manitoba Hydro's 66 kV and 33 kV supply systems using software such as PSS/E and PSCAD.
- Develop facility expansion plans to provide a reliable and economic supply for future loads, including recommendations for the addition of terminal station transformer capacity, transmission upgrades, and associated facilities.
- Perform load interconnection evaluation and facility studies, including the addition and expansion of major industrial customers.
- Develop documentation and conceptual and capital budget single line diagrams for the preparation of Capital Investment Concepts and Capital Investment Justifications for recommending capital expenditures.
- Assist in consultations with external customers to provide technical information on interconnection options, including meeting with Customer Energy Services representatives and load customers to negotiate and resolve issues related to interconnection options.
- Investigate system capability to support proposed customer motor-starting requirements and investigate power quality considerations like harmonics and remediating options.
- Responsible for preparation of the 66kV and 33kV line and substation load forecast and terminal station referral.
- Responsible for maintenance of the 66 kV and 33 kV transmission line impedance database and coordinate with the distribution and transmission planners to monitor information on new facilities being installed.

Qualifications:

- Graduate in Electrical Engineering from a university of recognized standing with a minimum of six years of related engineering of which two years should be in power systems analysis and planning.
- Professional member in good standing with Engineers Geoscientists Manitoba (or willingness and ability to attain within a specified amount of time).
- Experience conducting load flow, voltage stability and specialized power system studies using software such as PSS/E, PSCAD, and RTDS.
- Understanding of power system and the application of system planning criteria and engineering economics to power system planning analysis.
- Working knowledge of 66 kV and 33 kV power systems equipment.
- Effective communicator and ability to prepare technical reports, memoranda, and engage in presentations and discussion

within the Corporation, government agencies, manufacturers, consulting engineers, and other utility representatives.

- Proven ability to carry out assigned duties with mature judgment, minimum supervision, and delegate responsibility and motivate and supervise others.
- Must be able to work on project study teams and to work effectively with others on committees and working groups in dealing with customer issues.
- Knowledgeable in the capital budgeting and the Corporate Value Framework process is an asset.
- A post-graduate degree and/or post-graduate courses in power system expansion, voltage stability and applying FACTS devices is an asset.
- Experience with computer programming languages such as Python or FORTRAN, is an asset.
- Possess and maintain a valid Class 5 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 NOVEMBER 12, 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.