



EMPLOYMENT OPPORTUNITY

Closing Date: 2026/07/28

Transmission Planning Engineer

Winnipeg, MB

Manitoba Hydro is consistently recognized as one of Manitoba's Top Employers! We are 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 champions safety, supports innovation, and delivers on our commitment to customer service - while actively fostering a diverse, equitable, and inclusive workplace reflective of the communities we serve.

Great Benefits

- Competitive salary and comprehensive benefits package.
- Defined-benefit pension plan for long-term financial security.
- Nine-day work cycle, typically resulting in every other Monday off to support a balanced approach to work, family life and community.

Position Overview:

We're looking for a Transmission Planning Engineer to join our Grid Infrastructure Planning Department. Under the direction of the Senior Planning Engineer, identify and initiate transmission planning studies necessary to ensure reliable and economic expansion of the electrical transmission network.

Responsibilities:

- Perform customer load interconnection studies and provide advice to industrial customers.
- Initiate and perform long-range system studies to assess the adequacy of Manitoba Hydro's transmission and systems.
- Develop infrastructure expansion plans to provide reliable and economic supply for future loads, including recommendations for adding terminal station transformer capacity and associated high voltage facilities.
- Prepare study reports, capital investment justifications and single line diagrams to secure approval of budgetary funding for recommended capital projects.
- Investigate the reliability performance of the transmission systems and recommend enhancements to upgrade circuits to maintain acceptable customer service quality.
- Assist in consultations with external customers to provide technical information on interconnection options, including meeting with Customer Energy Services Representatives and customers to negotiate and resolve issues related to interconnection options.
- Investigate system capability to support proposed customer motor-starting requirements and identify options for system improvements.
- Conduct and prepare data for analytical studies of equipment ratings, fault levels, transient system performance and equipment ratings associated with planned transmission improvements using PSS/E, PSCAD, and DSAtools modelling software.

Qualifications:

- Graduate in Electrical Engineering from a University of recognized standing with a minimum of six years of related work, of which two years must be directly related to the analysis and planning of electrical power systems.
- 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.
- A good working knowledge of the power equipment, including its applications and limitations in the power system, would be an asset.
- Demonstrated ability to communicate effectively with personnel both orally and in writing within the Corporation, manufacturers, consulting engineers, and other utility representatives.
- Proven ability to carry out assigned duties with mature judgment and minimum supervision
- Must be able to work on project study teams and to work effectively with others on committees, subcommittees and working

groups.

- A master's degree and/or post-graduate courses in power system expansion, voltage stability and applying FACTS devices would be an asset.

Salary Range

Starting salary will be commensurate with qualifications and experience. The range for the classification is \$48.74-\$67.29 Hourly, \$93,398.24-\$128,947.78 Annually.

Apply Now!

Ready to join a team that energizes Manitoba and puts safety, innovation, and inclusion at the heart of everything we do? Visit www.hydro.mb.ca/careers to learn more about this position and to apply online.

Application deadline: JULY 28, 2026.

We appreciate your interest in Manitoba Hydro and thank all applicants. Only those selected for the next stage of the selection process will be contacted.

If you require accommodations during the recruitment process or need this posting in an accessible format, please let us know - we're committed to a barrier-free experience for all candidates.