Manitoba Hydro
energy for life

EMPLOYMENT OPPORTUNITY

Closing Date: 2026/11/16

Network 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.
- Enjoy a work schedule that typically provides every second Monday off (subject to location and operational requirements), supporting a balanced approach to work, family life and community.

Position Overview:

We are seeking a planning engineer to join our Integrated Resource Planning Division. You will be responsible for identifying and initiating planning studies necessary to ensure reliable and economic expansion of the Manitoba Hydro's major electrical transmission network.

Responsibilities:

- Conduct network reliability evaluation/facility studies, prepare reports and conduct analysis as appropriate to support capital investments.
- Perform load interconnection exploratory and load interconnection evaluation/facility studies including the addition and expansion of major industrial customers.
- Assist in developing study models and conducting technical studies to support Manitoba Hydro's compliance to applicable industry reliability standards such as NERC TPL-001-4.
- Develop conceptual and capital budget single line diagrams, and present conceptual options for capital planning to interested parties, gathering their feedback and incorporating it into the planning process.
- Participate in developing study packages to facilitate large power system simulations and develop/revise applicable planning documents and standard process flow chart.
- Prepare and make presentations in defense of reports and recommendations to interested parties outside of the department.

Qualifications:

- Graduate in Electrical Engineering from a University of recognized standing and a minimum of six years of related work experience 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).
- Experiences and/or post-graduate courses in power system dynamics, power system expansion, HVDC systems, FACTs devices or voltage stability would be an asset.
- Basic understanding of large, interconnected power systems and in the application of system planning criteria and engineering economics to power system planning analysis.
- Experience with conducting load flow, stability and specialized power system studies using software such as PSS/E, PowerTech DSA Tools and PSCAD.
- Knowledgeable in the capital budgeting and the evaluation process.
- Experience with computer programming languages such as Python or FORTRAN, 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,

MANITOBA HYDRO IS COMMITTED TO DIVERSITY AND EMPLOYMENT EQUITY

$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: NOVEMBER 16, 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.