Manitoba Hydro
energy for life

EMPLOYMENT OPPORTUNITY

Closing Date: 2026/11/13

Generation System Studies Engineer (Civil, Electrical or Mechanical 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 Generation System Studies Engineer to join our Energy Resource Planning Department. Under the direction of the Generation System Studies Lead, perform integrated generation system modelling, life cycle planning studies and economic evaluations for existing and new generation assets, supply side enhancements, gas system projects and generation outages. Develop and operate short and long term production cost models to undertake specialized studies of Manitoba Hydro's integrated system.

Responsibilities:

- Develop integrated planning studies for a range of new supply options including, but not limited to, combustion turbines, wind, solar, batteries and hydropower from the Stage 1 Inventory Level to the Stage 4 Pre-investment Level.
- Develop and update concepts, cost estimates, schedules and in-service dates including development activities, alternatives and evaluations based on input developed within the department, from other departments and consultants.
- Develop design criteria for new supply options through research and applying basic engineering principles to help ensure safe and cost-effective solutions that align with system needs.
- Contribute to defining engineering design parameters for supply options, focusing on integrating innovative solutions to meet safety, cost-efficiency, and system compatibility requirements within the generation and transmission network.
- Coordinate planning activity schedules, and track deliverables and drive their progress to completion.
- Collaborate with cross functional teams including members from within the department, other departments and by Consultants contributing to the staged planning studies. These studies included but are not limited to generation design, operations, transmission interconnection, licensing & permitting, property, environmental assessment and mitigation, cost estimating and risk analysis.
- Prepare and update supply options input parameters annually for input to long term supply planning and integrated resource planning processes.
- Participate in research and monitoring activities for supply options to ensure that planning considers modern technologies to be incorporated in the conceptual planning of supply options.
- Conduct and participate in engineering economic analysis and evaluations, business case development and risk analysis.
- Create and contribute to the development of reports and technical memoranda documenting results of planning studies.

Qualifications:

- A graduate in Civil or Electrical or Mechanical Engineering from a recognized University and have a minimum of six years' related experience and at least two years of experience related to energy resource planning.
- Professional member in good standing with Engineers Geoscientists Manitoba (or willingness and ability to attain within a specified amount of time).

A26-206

- Demonstrated ability to communicate effectively, both orally and in writing.
- Knowledge of the planning, design and operation of hydropower, wind and solar would be an asset.
- Knowledge of generation planning, engineering, cost estimating, scheduling and construction principles and contracting practices.
- Knowledge of the operation of Manitoba Hydro's integrated system including generation, transmission and HVDC operations.
- Ability to effectively coordinate and direct personnel both inside and outside Manitoba Hydro.
- Must possess initiative and sound judgment with the ability to make and implement sound and timely decisions.
- Must be able to handle complex technical problems with minimal supervision.
- Demonstrated initiative, creativity and ability to motivate personnel both inside and outside of the Corporation.
- A good organizer and capable of scheduling work to meet defined objectives.
- Demonstrated experience with application of project management processes and tools to manage projects.
- Demonstrated ability to carry out numerous concurrent tasks.

Notes/Comments:

- May be required to work at other locations within the province, and where transportation between these sites may be by small aircraft.

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: NOVEMBER 13, 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.

#IND1