



EMPLOYMENT OPPORTUNITY

Closing Date: 09.03.2026

Generation System Studies 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.
- 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.

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:

- Lead and perform production cost modelling to establish parameters for existing and future generation resources including plant and transmission system characteristics, operating constraints and outages.
- Manage the development and maintenance of system model inputs, system representation, operational constraints and pre/post processing tools for short and long term production costing models (GSPro SDDP and NCP).
- Perform system modelling and economic evaluations for new resource options, transmission upgrades, supply side projects including generating unit overhauls, uprates and replacements, civil improvements and auxiliary system upgrades.
- Undertake complex studies of the integrated generation and transmission systems, perform economic evaluations and make recommendations to support long term planning decisions for existing and new infrastructure.
- Develop planning level concepts, cost estimates, schedules and cashflows for enhancements to existing generation stations and new generation facilities.
- Carry out system integration studies for new supply side resources (e.g. solar, wind, battery) in support of the Integrated Resource Planning process.
- Develop key inputs to support annual updates of long term system generation, operating costs and surplus energy revenues, supply and demand analyses and impacts of water apportionment agreements.
- Lead cross-functional teams of internal subject matter experts and consultants to undertake plant level life cycle planning studies for existing and future generation facilities.
- Undertake engineering and economic evaluations and writing to support the development of Integrated Resource Plans and Long Term Resource Plans.
- Write reports, briefing notes, technical memoranda and develop presentations documenting results of studies including conclusions and recommendations.

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

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specified amount of time).

- Knowledge of Manitoba Hydro's integrated system including generation, transmission and HVDC.
- Knowledge of generation planning, engineering, cost estimating and scheduling.
- Experience with computational analysis and programming using Microsoft Excel, Python would be an asset.
- Demonstrated advanced ability to communicate effectively, both orally and in writing.
- Demonstrated knowledge of engineering economic analysis and evaluations.
- Demonstrated knowledge, understanding and experience with production cost modelling software.
- Demonstrated ability to write technical reports and deliver presentations.
- Analytically minded with a high degree of initiative and be able to work well both independently and in a team environment.

Note/Comment:

- When not on-site, this person in this position is eligible for the Hybrid Work Schedule which presently allows employees to work remotely on Mondays and Wednesdays.

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: MARCH 9, 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.

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