



# Employment Opportunity

Generating bright futures

**Closing Date:** 2023/04/10

## ICE & HYDRAULIC STUDIES ENGINEER (CIVIL)

**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 two days per week), 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.

We are seeking a Professional Engineer to join our Integrated Resource Planning division. You will be responsible for executing hydraulic and ice engineering studies to support the planning, design, operation, and licensing of the Manitoba Hydro's hydraulic system assets.

### Responsibilities:

- Perform a specialized technical function in river ice engineering, hydraulic design, and dam related engineering including public safety risk assessments and control measure design.
  - Develop and execute technical hydraulic and ice studies in support of hydraulic system operation, stakeholder engagement, regulatory and licensing initiatives, asset planning and maintenance, and environmental assessment.
  - Identify and develop engineering works to mitigate the effects of river ice processes on Manitoba Hydro operations.
  - Lead the development and maintenance of numerical hydraulic and river ice numerical models including collaborative engagement with industry and academic expertise.
  - Provide water regime and ice processes expertise to the design and implementation of monitoring plans.
  - Provide engineering design lead service and operational support to the Corporate Public Water Safety Around Dams Program.
  - Act as corporate engineering design lead for multi-purpose (ice, debris, safety) boom asset classes. Develop and follow-up on performance monitoring protocols.
  - Maintain technical competency and awareness of new developments and applications in the river/lake ice fields of study and the continued advancement of public safety programs in Canada.
  - Prepare formal reports, technical memorandum and make technical presentations internal and external to the corporation as required.
  - Develop junior engineers and technical staff in the application of various complex state-of-the-art hydraulic and river ice process numerical models.
- Provide project leadership and/or line advocacy for Corporate R&D projects, as well as for physical model and industry collaboration projects sponsored by Manitoba Hydro pertaining to river hydraulics and river/lake ice processes.

### Qualifications:

- Graduate in Civil Engineering from a university of recognized standing with a minimum of six years related engineering experience.
- Professional member in good standing with Engineers Geoscientists Manitoba.
- A M.Sc. (or higher) degree in water resources engineering is an asset.
- Experience in water regime and river/lake ice assessments, including fundamental knowledge of river hydraulics, river/lake ice formation, and ice breakup processes.

- Working knowledge of Public Safety Around Dams topics (including engineering of control measures) would be an asset.
- Good computer skills including practical experience in 2D and 3D numerical modelling of river hydraulics and river ice processes.
- Demonstrated ability to work effectively with personnel in other departments, engineering companies and with specialized consultants.
- Must have excellent written and oral communication skills.
- Possess initiative and mature judgment with the ability of making and implementing sound decisions.
- Possess a valid Province of Manitoba Driver's Licence.

### **Salary Range**

Starting salary will be commensurate with qualifications and experience. The range for the classification is \$44.05-\$60.82 Hourly, \$84,411.86-\$116,541.10 Annually.

### **Apply Now!**

Visit [www.hydro.mb.ca/careers](http://www.hydro.mb.ca/careers) to learn more about this position and to apply online. **The deadline for applications is APRIL 10, 2023.**

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.***