



EMPLOYMENT OPPORTUNITY

Closing Date: 2025/12/09

Optical Transport 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 permanent Optical Transport Engineer to join our Telecommunications Department in Winnipeg, Manitoba.

Responsibilities:

- Design optical transport, channel multiplex, clocking systems and customer service interface solutions as part of the overall communications carrier and multiplex systems to provide effective, efficient and reliable user communications over the backbone of the communications network.
- Design communications facilities for teleprotection, protection, control and operating circuits under the departmental practices to consider independent routing, latency, reliability and operating and maintenance requirements.
- Design communications facilities for Powerline Carrier (PLC) equipment to support operations data over transmission facilities.
- Provide related project support, written hardware and firmware specifications and configurations, performance and security testing and analysis specifications, material procurement and selection, engineering design drawings, bills of material, installation work packages, asset database entries, and commissioning test procedures. Direct and collaborate with draftspersons, technical assistants and technicians assigned to support installations.
- Prepare Capital Project Justification reports, project reports and cost estimates, progress reporting, maintenance procedural input, drawings and project workflow documentation to assist with initiation of related projects.
- Provide subject engineering design support for design team members, technical support staff which may include on-site support of project activities anywhere in Manitoba.
- Regularly communicate with other departments, utilities, suppliers, and industry organizations to acquire and exchange project-related requirements and information and to develop and maintain relevant expert level technical working knowledge.
- Establish and update design, installation and commissioning schedules to assist with cost and schedule control of projects.
- As required, make related technical presentations.
- Required to travel within and outside the province and occasionally outside the country in performance of duties.
- Understand and employ pertinent industry and utility practices and standards to address the design role for the corporation.

Qualifications:

- Graduate in Electrical Engineering from a University of recognized standing plus a minimum of four years engineering experience including at least one year directly related Telecommunications technical experience.
- Must have completed Standards of Conduct training or be willing to complete within two weeks of start date.
- Professional member in good standing with Engineers Geoscientists Manitoba (or willingness and ability to attain within a specified amount of time).
- Must obtain and maintain a current Personnel Risk Assessment and a "Clear" security rating in accordance with Manitoba

A25-252

Hydro policy P513.

- Must complete Critical Infrastructure Protection (CIP) Training prior to transfer date and renewed annually.
- Demonstrated initiative and ability to carry out complex projects to successful completion (on schedule and budget) with minimum supervision.
- Demonstrated KSA to plan, design, specify, organize, and control complex communications transport and channel multiplex equipment projects including configuration and installation of long-range transport systems, channel interface, amplifiers, digital cross connect system, optical filtering, wave division multiplexing, power line carrier, teleprotection, synchronization clocking systems, network management systems and alarm transport systems including system protocols and interface standards.
- Demonstrated KSA to effectively use MS Office, SmallWorld PNI (TeleGIS), AutoCAD, SharePoint, SAP and network management applications.
- Demonstrated KSA to improve procedures, processes, and strategies.
- Knowledge of Manitoba Hydro's Telecommunications systems.
- Demonstrated KSA to make engineering computations quickly and accurately.
- Willing to travel both inside and outside the province or country as required for project work or training.
- Must have a valid Province of Manitoba Class 5 Driver's Licence.

Salary Range

Starting salary will be commensurate with qualifications and experience. The range for the Professional Engineer II classification is \$43.44-\$59.95 Hourly, \$83,247.84-\$114,870.60 Annually. The range for the Engineer-in-Training classification is \$32.51-\$45.74 Hourly, \$62,293.92-\$87,654.58 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: DECEMBER 9, 2025.

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.