



EMPLOYMENT OPPORTUNITY

Closing Date: 26.11.2024

TECHNICAL OFFICER 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 3 days per 2 week period), 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, while actively supporting a diverse, equitable and inclusive workplace.

We are seeking a Technical Officer to work in the Maintenance & Operations Engineering Support Department. Under the general direction of the MOES Mechanical Section Head or delegate, you will provide mechanical technical support for all energy stream assets to ensure safe, economic, and reliable operations. Mechanical Engineering Technology will be applied toward innovative problem solving, root cause analysis, maintenance program development, commissioning, application of predictive monitoring technology, project scope development and budgeting. This position will work independently and with internal groups to perform tests, inspections, vibration analysis, and recommend operational and protection limits.

Responsibilities:

- Vibration and Air Gap monitoring and analysis of Synchronous Condensers, Hydraulic and Thermal Generating units.
- Provide technical engineering guidance to improve the operation of energy stream assets and to determine the causes of equipment failure, including a combination of visual, destructive, and non-destructive testing, and recommend appropriate action.
- Analyse operating equipment performance and malfunctions; recommend the most economical modifications to provide efficient and safe operation and improve reliability, availability, and performance.
- Provide technical assistance for cost-effective practical repair methods for worn or damaged equipment.
- Support engineering requirements pertaining to the maintenance and operation of all energy stream cooling and heating systems, including well water cooling, hydrogen generators, air handling, chillers, heat exchangers, compressed air systems, and air conditioning systems.
- Participate in scope development and prepare condition assessments, technical specifications, recommendations, estimates, and commissioning procedures for all energy stream assets.
- Assist with maintenance and overhauls of Synchronous Condensers and Hydraulic Generators.
- Participate and provide technical support in commissioning and final performance testing for new, repaired, or refurbished systems/equipment.
- Analyse equipment operating data and evaluate overall effectiveness of maintenance programs and functional design and provide technical assistance into the Reliability Centred Maintenance (RCM).
- Participate in the procurement process for goods and services through the development of technical specifications, tender analysis, purchase negotiations, and recommendations for contract award.
- Revise existing or prepare new drawings following Manitoba Hydro drafting procedures.
- Prepare schedules and plan work considering equipment operational requirements and minimization of outages.

Qualifications:

- Two-year diploma in Mechanical Engineering Technology from a recognized technical institute, with a minimum of five years of experience directly related to the field of power generation, transmission, distribution, or HVDC. Membership in good

standing with Certified Technicians & Technologists Association of Manitoba.

OR

- Two-year diploma in Mechanical Engineering Technology from a recognized technical institute, with a minimum of five years of experience as a qualified technologist in a field directly related to vibration analysis and condition assessments of rotating equipment. Membership in good standing with Certified Technicians & Technologists Association of Manitoba.
- AND
- General knowledge of vibration analysis, ISO Vibration standards, and use of Vibration monitoring systems/software.
 - General knowledge of non-destructive examination techniques, visual (VT), penetrant testing (PT), and magnetic particle.
 - General knowledge of non-destructive examination, metallurgy, heat treating, materials selection, common welding processes and techniques (SMAW, FCAW, GMAW, and GTAW) and their technical parameters and types of weld inspection techniques.
 - General knowledge of safety, mechanical engineering standards, regulatory requirements, codes and practices, including general knowledge of Inspection and Technical Services Manitoba (ITSM).
 - Must obtain and maintain a current Personnel Risk Assessment and a "Clear" security rating in accordance with Manitoba Hydro policy P513.
 - Required to travel and remain at work sites for extended periods of time throughout Manitoba.
 - Physically able to perform duties that require mobility while working at elevations and in confined spaces.
 - Possess and maintain a valid Class 5 Province of Manitoba Driver's Licence.
 - Must be able to apply theory and practical knowledge to the specification and maintenance of mechanical auxiliary systems, including HVAC systems, valve cooling systems, oil processing, compressed air, and hydrogen generation and cooling systems.
 - Must have a demonstrated ability to organize and to provide instrumentation for special tests in the field with limited supervision.
 - Working knowledge and operational understanding of Converter Stations and Generating Stations will be considered an asset.
 - Experience in Commissioning, Specification Writing, and Equipment Overhauls will be considered an asset.
 - Experience in RMS, EAM, ANT, Meridium, COLA, and Crossbow will be considered an asset.

Salary Range

Starting salary will be commensurate with qualifications and experience. The range for the classification is \$42.29-\$58.35 Hourly, \$81,036.54-\$111,819.24 Annually.

Apply Now!

Visit www.hydro.mb.ca/careers to learn more about this position and to apply online. The deadline for applications is **NOVEMBER 26, 2024**.

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.