



Employment Opportunity

Generating bright futures

Closing Date: 2022/09/26

CIVIL ASSETS RELIABILITY ANALYTICS ENGINEER

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, 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 Civil Assets Reliability Analytics Engineer to join our Asset Lifecycle Management Department. You will be responsible for evidence-based reliability analysis of lifecycle processes for corporate civil and linear assets, and to ensure these assets lifecycle policies are developed with optimal lifecycle management principles, ensuring cost/performance/risk profiles are optimized across the asset(s) lifecycle(s).

Responsibilities:

- Responsible for evidence-based analysis, to develop the long-term plan for assessment and management of the reliability of civil and linear assets. Develop and maintain a long-term plan, based on key stakeholder input, which details the ultimate requirements for the Corporation's civil and linear assets assessment and lifecycle management, the current gaps and action plans to address the gaps.
- Ensure Asset Management asset decisions are quantitative, and evidence based by creating and maintaining processes and systems for asset centric data collection and reliability analysis of cost performance and risk.
- Develop reports for evaluating the repair, refurbish, replace decisions.
- Documenting, prioritizing, planning, delivering and evaluating civil plant operations, and minimize the risk and impact of failure in civil assets and processes.
- Identify and report on potential failures within a process or system or civil assets. Seek, recommend and develop innovative concepts applicable to the civil and linear assets to optimize lifecycle decision making.
- Lead development and documentation of processes involved and perform detailed reliability analysis of the corporation's civil and linear assets to develop optimal asset strategies, balancing cost performance and risk.
- Perform Failure mode and effects analysis (FMEA), Reliability hazard analysis, and root cause analysis on civil and linear assets.
- Assess the risks of failure of all civil and linear assets considering asset condition assessments, indexing, supporting development and maintenance degradation and probability of failure curves; working closely with Asset Information & Risk Management Department Risk assessment methodology for civil and linear assets.
- Make recommendations based on analysis and civil engineering knowledge for Preventative and Planned Maintenance Optimization.
- Provide analysis and assist to make recommendations with regards to Lifecycle Value optimization of civil assets, input into development of business processes and tools and to whole lifecycle cost models of civil and linear assets.
- Determine maintenance or capital investment based on functional analysis of civil assets, by using lifecycle value identification.
- Act as an SME to develop capital project alternatives for civil assets within the Corporate Value Framework, working with the Civil Asset Advisor.
- Build and maintain relations with design, operations, maintenance, project management, resource planning, plant, finance, property, and other groups within and outside of the division for the purposes of information sharing and team alignment.
- Collaborate with other utilities and external organizations to establish reliability benchmarks for civil and linear assets to

optimize lifecycle delivery.

- Provide civil engineering expertise and reliability engineering services to other parts of Manitoba Hydro related to civil and linear assets, emerging trends and technologies, and the application of reliability analysis, including directing or conducting meetings, seminars or presentation and training.

Qualifications:

- Graduate in a related Engineering discipline from a university of recognized standing with a minimum of seven years of related experience having obtained three years of this experience in design, construction, maintenance or project management of civil assets.
- Professional member in good standing with Engineers Geoscientists Manitoba.
- Advanced knowledge of Civil & Linear type assets including the design, operation, reliability, compliance requirements, maintenance practices, and modes of failure.
- Basic knowledge of other asset types including but not limited to Mechanical, Electrical, Gas type assets.
- Knowledge of RCM theory, root cause analysis work management cycle
- Knowledge of Asset Management best practices.
- Advanced knowledge in maintenance applications and condition assessment processes related to asset management.
- Must have a good working knowledge of Safety and Environmental Regulations.
- Must have proven ability to co-ordinate the activities of others providing engineering services as required. Must be able to work effectively with various levels in the organization and externally including consultants, contractors and suppliers.
- Must have good inter-disciplinary organizational skills, ability to train others, make presentations and delegate authority.
- Must have a demonstrated ability to analyze and prepare engineering reports and standards, and to develop processes.
- Possess practical experience and working knowledge of CMMS, SAP, GIS applications, and Microsoft Office.
- May be required to visit various stations across the province.
- Required to travel by all modes of transportation i.e. air, land and water.
- Possess and maintain a valid Province of Manitoba driver's licence.

NOTE: 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 \$47.09 -\$64.51 Hourly, \$90,229.10-\$123,616.48 Annually.

Apply Now!

Visit www.hydro.mb.ca/careers to learn more about this position and to apply online. The deadline for applications is **SEPTEMBER 26, 2022**.

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.