



EMPLOYMENT OPPORTUNITY

Closing Date: 2024/07/02

EMS REAL-TIME APPLICATION SUPPORT 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.

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 permanent EMS Real-time Application Support Engineer to join our Control Centre Technology Systems Department in Winnipeg, Manitoba.

Responsibilities:

- Responsible for performing technical and feasibility studies to provide recommendations that assist in the determination of upgrading or the addition of new EMS network applications.
- Conduct system tests to verify real-time EMS application functionality and resolve application issues by analyzing, recommending, and/or performing configuration and parameter adjustments, RAS model revisions and topology, model and ICCP changes.
- Interface with Manitoba Hydro's reliability coordinator's (MISO) engineering staff and coordinate resolution of system issues pertaining to real-time solutions, EMS models, software functionality and parameters.
- Monitor performance and analytics of the Real-time Network sequence applications, including the state estimator and real-time contingency analysis. Provide technical updates and ensure awareness of immediate system challenges, potential obstacles, and compliance violations.
- Provide technical support for project development, application implementation, real-time application expansion, and maintenance activities. Liaise with senior team members to resolve complex challenges.
- Provide on-going customer support to ensure that System Operations is provided with EMS-related data, including snapshots of real-time or state-estimated data, reports produced from historical data and feedback on guideline implementations. Obtain customer feedback and requests and share with group for future consideration.
- Revise technical documents following any changes or additions to the Real-time Assessment. This includes operating procedures, EMS instructions and internal training guides and reference material.
- Participate in an on-call rotation which provides support to users of AEMS network applications, including but not limited to System Control and System Performance departments.
- Mentor/supervise and train Engineers-in-Training, Interns, and summer students.

Qualifications:

- Graduate in Electrical or Computer Engineering from a University of recognized standing and a minimum of six years of related experience in power systems engineering. Be an active Member of Engineers Geoscientists Manitoba.
- Must have completed Standards of Conduct training or be willing to complete it within two weeks of the start date.
- Must obtain and maintain a current Personnel Risk Assessment and a "Clear" security rating in accordance with Manitoba Hydro policy G45D.
- Possess a valid Province of Manitoba Driver's Licence.
- Possess initiative and mature judgment with the ability of making and implementing sound decisions.
- Must be able to adjust to frequently changing priorities.
- Present strong verbal and written communication skills. Must be able to effectively communicate complex ideas to all levels of

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- audience while being tactful and diplomatic to gain others' confidence.
- Display enthusiasm and initiative in handling complex and adverse technical and administrative problems.
- Demonstrate an ability to work in a high-functioning technical team environment.
- Familiarity with the EMS, EMS revision process, and system applications would be an asset.
- Demonstrate an ability to effectively use computer programs such as PSS/E and DSA Tools to develop computer models and perform system studies to analyze the power systems. Familiarity with the EMS engineering applications including DSA Tools systems and integration, Power Flow, Contingency Analysis, State Estimation, Remedial Action Schemes, RTDYN, ICCP, would be an asset.
- Knowledge of internal and external provincial transmission operations would be an asset.
- Knowledge of SCD processes and familiarity with SCD positions and their duties/responsibilities would be an asset.
- Knowledge of programming languages would be an asset.

Salary Range

Starting salary will be commensurate with qualifications and experience. The range for the classification is \$46.06-\$57.15 Hourly, \$88,251.02-\$109,506.02 Annually.

Apply Now!

Visit www.hydro.mb.ca/careers to learn more about this position and to apply online.

The deadline for applications is JULY 2, 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.