



Employment Opportunity

Generating bright futures

Closing Date: 2022/08/29

EMS REAL-TIME APPLICATION SUPPORT ENGINEER

Winnipeg, Manitoba

Manitoba Hydro is consistently recognized as one of Manitoba's Top Employers!

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 an experienced and highly motivated electrical or computer engineer to develop and provide technical engineering support for the power system performance related aspects of the Energy Management System (EMS). The EMS is a suite of applications responsible for the monitoring and control of bulk power on the transmission grid within Manitoba. The EMS Real-time Application Support Engineer responsibilities include technical leadership roles on projects, application implementation, real-time application support, System Operator and back-office staff training, and maintenance activities.

Responsibilities:

- Responsible for technical and feasibility studies and recommendations that assist in the implementation of new EMS applications or in upgrading of existing applications, including generation, network, OTS, advisory applications, DSA Tools Integration and Wide Area Monitoring System (WAMS) applications.
- Troubleshoot and resolve problems with the EMS engineering applications (DSA Tools, WAMS Applications, AGC, Power Flow, Contingency Analysis, State Estimation, Operator Training simulator, Optimal Power Flow, Loadshed, advisory applications, and others).
- Provide engineering and technical support services for the System Control Department and Transmission Services Department staff. Provide technical expertise in the production of normal and emergency operating procedures.
- Responsible for economic studies based on EMS or power system related functional requirements to determine design and implementation alternatives.
- Participate in system tests / verifications by analyzing application requirements, defining operation limitations, monitoring electrical quantities and verifying results.
- Provide training for operators and other staff on EMS applications.
- Provide on-going support to ensure that the System Performance Department 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.
- Develop new and/or improve existing in-house computer programs used to enhance the application of the EMS computer tools for power system operation/analysis.
- Participate as required on inter-utility study task forces and committees concerned with EMS application performance.
- Prepare formal reports and technical memorandums.
- 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.
- Membership in Engineers Geoscientists Manitoba.
- Demonstrated ability to effectively use computer programs intended for power system simulation.
- Demonstrated ability to develop computer models to analyze power systems.
- Knowledge of extra provincial transmission operation would be an asset.
- Knowledge of programming languages would be an asset.
- Demonstrated ability to perform system studies using PSS/E and DSA tools.
- Demonstrated ability to analyze power systems.
- Possess initiative and mature judgment with the ability of making and implementing sound decisions.
- Willing to represent the corporation on external committees and working groups.
- Tactful and diplomatic with the ability to gain the confidence of others.
- Possess a valid Province of Manitoba Driver's Licence.

- In order to ensure the health and safety of its workplace during the COVID pandemic, all employees and contractors of Manitoba Hydro are required to comply with the Corporation's COVID-19 Vaccination policies. Should you be selected for an interview, Manitoba Hydro will provide you with further information on its policy.

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.

Salary Range

Starting salary will be commensurate with qualifications and experience. The range for the classification is \$43.40-\$59.92 Hourly, \$83,164.38-\$114,818.86 Annually.

Apply Now!

Visit www.hydro.mb.ca/careers to learn more about this position and to apply online. **The deadline for applications is AUGUST 29, 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.