



Operations Engineer

About Us

Headquartered in Oshawa, Ontario, H2O operates 10 hydroelectric generating stations located in Ontario. In Ontario **H2O Power** is the third largest provider of hydroelectric power in the province. H2O is majority-owned by PSP Investments, one of Canada's largest pension investment managers.

For more information about the company, please go to: www.h2opower.com

The Position

Opportunity for growth through day-to-day mentorship and insight into the business model are natural features of the open and collaborative working environment at H2O Power. We are looking for a hands-on team player who is motivated by solving technical challenges and carrying a high degree of personal responsibility and accomplishment in their approach to work.

The successful candidate will be part of the Operations team providing engineering support to daily and long-term operations. During the pandemic this position will work remotely until the company determines that the COVID situation has reached a sustained level allowing a safe transition to work in the Oshawa office. Following this hybrid work will be available to staff in the head office.

Key Responsibilities

- Review and analyze operations events and provide recommendations, specifications and develop and implement corrective plans.
- Monitor critical PPM programs for execution and performance. Provide assistance and guidance to field staff:
 - Protective relaying maintenance
 - Transformer maintenance
 - MV and HV breaker maintenance
 - Battery system maintenance
 - Transformer oil test program
- Develop maintenance standards for implementation within H2O Power. Prepare remedial plans for correction of maintenance deficiencies.
- System Reliability:
 - Conduct outage/event analysis and execute follow-up as required.
 - Identify equipment performance issues, prepare and direct implementation of corrective measures.
 - Maintain IESO reliability reports. Follow up on deficiencies identified.
- Develop, update and modify Standard Operating Procedures relating to system operations and maintenance.
- Engineering Studies:
 - Complete and maintain system studies for all H2O Power facilities, including;
 - Short circuit studies
 - Coordination studies for all generators, transformers and lines
 - Arc flash studies



- Maintain database for all H2O Power protective relay systems settings, AVR settings and turbine control parameters.
- Equipment and tools:
 - Design, implement and maintain desktop operating tools as required.
 - In conjunction with IT Section, develop and maintain monitoring tools in SCADA system
- Support and provide delivery of engineered designs for limited scope projects.
- Capex: work in conjunction with Engineering Section to develop and validate specifications for new or upgraded systems and equipment.
- Compile data and prepare regulatory reports.

Qualifications

- Bachelor's degree in Electrical Engineering, with a minimum of 5 years relevant professional experience in power systems modelling.
- Knowledge of Power Analysis software.
- Background with SCADA and PLC systems is considered an asset.

Travel & Other Requirements

- The Operations Engineer will be expected to travel to field sites in Ontario periodically. Normal frequency of travel is 1 visit/month.
- As a condition of employment, all new employees must be fully vaccinated and provide satisfactory proof, unless approved for an exemption based on a protected ground in the Ontario Human Rights Code ("the Code").

Applicants are invited to submit a detailed resume outlining your interests and qualifications through our [careers site](#).

H2O Power is an Equal Opportunity Employer; promoting accessibility and inclusivity at work and offering accommodation for applicants as required and requested.