

Position Title: Senior Substation Equipment Engineer
Employment Status: Full Time
Location: Calgary, Alberta
Closing Date: Aug 29 2010

Summary

An opportunity currently exists for an Electrical Engineer or Electrical Engineering Technologist with RPT (Eng) designation in the Operational Engineering team within the Asset Management Department of AltaLink. Reporting to the Manager, Operational Engineering, the successful candidate will work with internal & external technical staff to ensure that new substation facilities are appropriately integrated into existing facilities.

This position will appeal to individuals with a transmission utility substation maintenance and design background who are looking for the opportunity to develop their engineering and leadership talents in a dynamic utility environment.

Responsibilities

The successful candidate will be accountable for the following:

- Integrate proven technologies with AltaLink's existing maintenance program to improve reliability of the transmission system.
- Effective use of real-time operational and maintenance data coordinated with historical trends and analysis in order to enhance AltaLink's ability to provide a safe and reliable transmission system.
- Involvement in the interrogation and analysis of data from numerous sources including SCADA, traditional condition-based tasks and real-time monitoring devices installed on high voltage electrical equipment and the transformation of that data into valuable information through mathematical models.
- Perform root cause failure analysis methods and investigations on equipment failures and trouble issues.
- Provide support in the analysis and resolution of system disturbance and equipment performance.
- Investigate and resolve systemic substation equipment defects and deficiencies.
- Provide technical support, direction and training to substation field personnel.
- Participate in the development of functional criteria and standards.
- Provide timely and effective substation technical input into conceptual engineering, project scoping and project execution. This includes:
 - Creating project scope descriptions that provide sufficient detail to allow accurate estimating and clear direction to the Integrated Projects group.
 - Reviewing technical drawings & specifications to ensure each project meets acceptable standards for operability, functionality, maintainability, reliability, durability and safety.

Qualifications

The minimum qualifications for this position are, as follows:

- Bachelor's Degree in Electrical Engineering or Technologist Diploma in Electrical with RPT (Eng) status.

- Qualifies for registration as a Professional Engineer with the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA).
- Minimum 10 years of substation maintenance, or design experience.
- Experience with (or at least a technical understanding of), the following:
 - Assessing equipment condition utilizing field test data and online monitoring
 - Substation operating and maintenance practices
 - High Voltage Power Equipment (including current transformers, instrument transformers, disconnect switches, circuit breakers and surge arrestors)
 - AC and DC supplies
 - Ground grid design
 - Substation construction practices.
 - Substation and Bus Layouts
- Knowledge of industry standards such as CSA, IEC, IEEE, ANSI.
- Demonstrated ability to take a leadership role for troubleshooting and resolving technical issues, as well as demonstrated leadership in mentoring and guiding junior staff.
- Strong verbal and written communication skills, with ability to work in a team environment, positively influence others, and develop strong internal and external relationships.
- Excellent analytical and risk assessment skills.
- Strong written, reporting, graphical and oral presentation skills.
- Excellent organizational skills and ability to manage a wide variety of issues on multiple projects simultaneously.

Interested applicants can submit their resume and cover letter by Aug 29 2010. Apply online at www.altalink.ca.