YUKON ENERGY CORPORATION
Electrical Engineer-Automation and Control
Position # 95-26

The Opportunity: Electrical Engineer-Automation and Control
Permanent, Full-Time position, based out of Whitehorse, Yukon.

Are you an Electrical Engineer looking for an opportunity to work on automation and control systems that support power generation and delivery across Yukon? Yukon Energy is seeking an Electrical Engineer – Automation and Control to join our team in Whitehorse, Yukon, providing engineering expertise for the systems that support the safe and reliable operation of our generating stations and substations.

What will you do: As a member of the Electrical Engineering team, you will:

- Design, configure and support automation and control systems, including RTUs, RTACs, PLCs, local HMIs and field devices supporting generation, transmission and distribution operations.
- Serve as Project Engineer or technical specialist on capital and maintenance projects, supporting system design, equipment integration, testing and commissioning.
- Investigate and troubleshoot control, automation and field communication issues, providing engineering support to improve system reliability and operational performance.
- Work collaboratively with Engineering, Operations, OT, IT and SCADA teams to integrate field equipment, coordinate system interfaces and ensure compliance with engineering, cybersecurity and safety requirements.
- Contribute to substation automation, remote monitoring and control system modernization initiatives, supporting the long-term reliability and performance of Yukon Energy's electrical infrastructure.

What you need to succeed:

- A bachelor's degree in Electrical Engineering with eligibility for registration as a Professional Engineer (P.Eng.) in Yukon, or a diploma in Electrical Engineering Technology with a minimum of eight years of relevant utility experience and eligibility for or possession of a Limited Licence (L.L.Eng.).
- A minimum of five years of relevant experience in process-level automation and control within a utility or industrial environment (for the engineering degree pathway).
- Hands-on experience with RTUs, PLCs and HMIs, including configuration, testing, troubleshooting and commissioning.
- Knowledge of industrial communication protocols such as DNP3, Modbus and IEC 61850, along with an understanding of field communications and SCADA interfaces.
- Experience supporting capital projects, operational troubleshooting and automation system upgrades. Familiarity with SEL RTACs, Emerson RX3i PLCs or similar equipment is an asset.
- Strong analytical, problem-solving and communication skills, with the ability to collaborate across technical and operational teams.
- A valid Class 5 driver's licence and willingness to travel to remote sites within Yukon (approximately 10–25%).

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What is in it for you:

- Competitive Pay with annual cost of living increase
- Northern Allowance: $7,920.00 + 5.2% Base Pay added to Base Salary
- Comprehensive Benefit Package that begins the first day of employment
- 160 hours of vacation leave, 160 hours of sick leave, 40 hours of special leave
- Travel Allowances for employee and their spouse and dependent(s)
- Annual Wellness Subsidy
- Cell Phone Subsidy
- RRSP Match begins first day of employment
- Relocation Assistance
- Training and Development opportunities
- Opportunity to be a part of something greater and help the Yukon

Who we are: Yukon Energy is the primary generator and transmitter of electrical energy in the Yukon territory, operating within the Traditional Territories of Yukon First Nations. We take pride in our commitment to sustainability and collaboration with Indigenous communities across all our operations.

Yukon Energy values diversity in the workplace. We strive to achieve a skilled workforce that is representative of the population we serve, and we are committed to the employment and professional development of Yukon First Nations citizens. First Nations candidates are encouraged to self-declare.

Ready to apply? Visit Yukon Energy Careers or contact People & Culture at hr@yec.yk.ca with any questions. Applications will be accepted until the position is filled.

Applicants must be legally entitled to work in Canada without employer sponsorship. We thank all applicants for their interest; however, only those selected for further consideration will be contacted.

Posted: October 19, 2026 | Learn more about Yukon Energy