



YUKON ENERGY CORPORATION

Protection and Systems Engineer-Whitehorse

Position # 95-31

The Opportunity: Protection and Systems Engineer

Permanent, Full-Time position, based out of Whitehorse, Yukon.

Are you a Protection and Systems Engineer looking for an opportunity to work on critical power infrastructure in one of Canada's most unique and remote regions? Yukon Energy is seeking a skilled engineer to join our team in Whitehorse, Yukon—where your expertise helps power communities across the territory.

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

- Design, implement, and maintain protection, control, and monitoring systems to support the safe and reliable operation of Yukon Energy's generation, transmission, and distribution network.
- Perform relay setting calculations, develop protection settings and coordination studies, and analyze system events to improve system reliability and performance.
- Support operations, maintenance, and capital projects by providing technical expertise and ensuring new equipment and upgrades integrate with existing protection and control systems.

What you need to succeed:

- Bachelor's degree in Electrical Engineering (Power Systems preferred) and eligibility for registration as a Professional Engineer (P.Eng.) in Yukon. An Electrical Engineering Technology diploma with significant utility experience and eligibility for a Limited License (L.L.Eng.) may also be considered.
- Several years of progressive experience in protection and control within a utility environment, including relay testing, troubleshooting, commissioning, and supporting operations and maintenance activities.
- Experience conducting protection coordination studies, relay setting development, and system event or outage investigations, with the ability to identify root causes and recommend improvements.
- Familiarity with capital project delivery, including design review, equipment selection, procurement support, and commissioning of protection and control systems.
- Working knowledge of protection principles for generators, transformers, buses, and transmission lines, along with applicable IEEE, CSA, and NETA standards.
- Experience with power system analysis tools such as ASPEN OneLiner, ETAP, CYME, or PSS/E, and relay configuration tools such as SEL AcSEerator QuickSet and related protection and automation software.
- Familiarity with SCADA, protection communications, and control systems such as DNP3, IEC 61850, Modbus, Ethernet, and fiber-optic networks.
- Strong analytical, troubleshooting, and technical communication skills, with the ability to work collaboratively across engineering, operations, and field teams.
- Valid Class 5 driver's license, and the ability to travel to remote sites as required.



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What is in it for you:

- Competitive Pay with annual cost of living increase
- Northern Allowance: \$7,000 + 5% 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.

To **apply**, please go to [Recruitment \(adp.com\)](#).

If you have any questions, please feel free email People & Culture via email at hr@yec.yk.ca. The posting will remain open until the position is filled.

For more information on Yukon Energy, please go to: <http://www.yukonenergy.ca>.

We thank all candidates for applying but only short-listed candidates will be contacted. **Applicants must be legally entitled to work in Canada for any employer without employer sponsorship.**

Date Posted: March 5, 2026