



Engineers Yukon

Position Title: SCADA & Automation Engineer

Employer: Northwest Territories Power Corporation (NTPC)

Closing Date: June 1, 2018

Location: Hay River, NT

Terms of Employment (Full-time, part-time, etc.): Full time

Salary: \$53.07 - \$64.51/hr

Job Description:

Under the direction of the Manager Engineering Design, the successful candidate will provide support for capital projects, designs for SCADA, Automation and related Communications and Electrical systems for all power generation, substations, system operations (Jackfish Control Centre), residual heating, renewable energy and other systems. Scope includes all communities, building, plants and facilities in NTPC's Hydro Zone including the North and South Slave, the Thermal Zone and customer or IPP-owned facilities. Technologies include thermal, hydro and other renewable generation technologies. Complies with NAPEG, Engineering design standards and processes, and supports needs and complies with processes of Asset Management, Engineering, Project Management and other NTPC groups.

Responsibilities:

- Supports Asset Management, Engineering and Project Management with identification, definition, design and implementation of capital projects. Prepares project briefs. Supports capital projects by providing engineering design services and technical expertise and performing or supporting commissioning during capital project implementation. May be assigned as project monitor for capital projects up to \$500,000 in value.
- Prepares preliminary and final detailed designs for the SCADA, Voice-Data Radio and related Communication systems and Automation.
- As part of Engineering's design quality assurance process, performs independent reviews of the design work done by other designers, engineering consultants and CAD technicians.
- Supports Hydro and Thermal Operations as requested to resolve complex electrical issues and to support investigations, outage analysis, restoration and emergency field repairs.
- Performs detailed electrical engineering design and analysis work that includes, but is not limited to, new installation, modifications, upgrades, overhauls and replacement of plant main control rooms & control panels (switchgear, etc.), electric motors c/w Variable Frequency Drives (VFDs), Programmable Logic Controllers (PLCs), digital governors, generators (rotors & stators), engine-generator sets (gensets), instrumentations, exciters, voltage regulators, breakers & associated controls, substations (main & auxiliary transformers, grounding grid, bus work, etc.), station services, lightning protection, lighting layouts, cable trays layouts, cable schedules and any electrical support systems and equipment.
- Provides technical/operational support and advice to field personnel for operational issues related to electrical issues, SCADA, Automation and related communications systems, coordination studies, relaying / protection settings, etc.
- Supports Project Management by providing a range of capital project support services. May write or support Requests for Proposal (RFPs). May perform tender evaluations and provide recommendations for contract award. May act as Project Monitor and perform on-site construction supervision/inspection. May perform or witness commissioning. May prepare



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progress reports, technical reviews and budget variance reports and may support Project Manager with Change Orders, Job Cost Revisions (JCRs) and other project requirements.

- Reviews and approves customer renewable energy applications and designs. Works with external GNWT departments reviewing renewable energy designs.
- Travels by commercial and small aircraft, helicopters, on-road vehicles, all-terrain vehicles, boats and other means of transport to all communities, buildings, plants and any other facilities as required.

Requirements:

- Bachelor's degree in Electrical or Computer Engineering.
- 5 years of experience in a utility or industrial setting with SCADA / Automation / Telecommunications / and Controls required; preference given to experience directly related to diesel and/or hydroelectric power generation.
- Registered with NAPEG or eligible to be registered with NAPEG to practice as a Professional Engineer in the NWT.
- Accomplished computer skills with MS Office Suite, AutoCad and the ability to apply electrical design software (e.g. Aspen, SKM Power Tools – Dapper and Captor).
- Experience with supervisory controls and communications equipment, remote terminal units (ABB RTU560) and power line carrier equipment (ABB ETL680).
- Experience in PLC logic and programming with the following PLCs: Allen Bradley, Modicon, GE Fanuc, Siemens, etc.; and HMI or SCADA programming and configuration of any of the following software packages Intellution, Survalent, Willowglen, etc.
- Proven experience in panel design and layout, bill of materials, and wiring schematic capabilities is expected. The candidate must have experience reading and red-lining PI&D drawings.
- Proven experience commissioning capital projects at generating stations and substations.
- Successful completion of a criminal records check will be required.
- If a suitable P.Eng candidate cannot be secured, we may consider an under-fill for this position (Electrical EIT or Technologist with directly related experience in SCADA and automation programming).

Please be aware that the successful candidate for this position will be required to reside in Hay River, NT; relocation assistance may be available.

We offer an attractive total compensation package which includes a defined benefits pension plan, health and dental coverage, as well as, additional allowances.

Affirmative Action Employer - Affirmative Action candidates must clearly identify eligibility status via our on-line application process in order to receive priority consideration.

To apply, click [here](#).

Web site: <http://www.ntpc.com/>