



ATLANTIC FIRST NATIONS WATER AUTHORITY (AFNWA) POSITION DESCRIPTION

Position: Utility Technologist- Industrial Electrician

Department: Operations

Primary Function: Responsible for the operation, maintenance, integration, and configuration of all electrical and SCADA Monitoring Systems throughout AFNWA. Assist with the installation, maintenance, and calibration of instrumentation, radio communication equipment, master meters, pressure control valves, generators, and other associated electrical equipment and devices in the system. Perform maintenance to water and wastewater booster stations and fire pumping equipment. Support Operations staff in the operation of various pumping and treatment systems.

Duties and Responsibilities:

- First and foremost, work in a safe manner and obey all codes, and report all unsafe acts and conditions.
- Perform preventative maintenance and inspections of all pumping and treatment plants, as required.
- Perform checks on equipment to ensure proper sequence of operations, correct calibrations of controls and instrumentation as directed.
- Maintain electrical and control equipment as part of routine preventative maintenance program.
- Read and interpret drawings and electrical code specifications to determine layout of industrial electrical equipment installations. Assist with the review of design drawings for capital and other construction projects including SCADA designs and related infrastructure installations.
- Handle emergency breakdown calls during regular hours or by call out after hours. Alert supervisor or other operation department personnel as warranted by the urgency of the problem.
- Work with other staff in emergency situations, as required, to maintain continuous operation of electrical equipment.
- Recommend scheduling of major electrical equipment overhauls to the Supt. of Technical Services.
- In consultation with supervisor, arrange for outside assistance on major repairs or upgrades.
- Assist in the installation start-up and debugging of new station equipment and controls.
- Maintain an inventory of necessary parts for all equipment under his/her responsibility.
- Maintain complete file of technical literature, drawings and records pertaining to equipment within AFNWA facilities.
- Perform other miscellaneous duties as designated by the supervisor, which could include maintenance on mechanical equipment such as pumps and feeders.
- Select, install, calibrate, monitor, and ensure the accuracy of master flow meters throughout the service areas.
- Undertake evaluation and repairs to various electronic and radio telemetry equipment, wiring, electrical circuits, and other hardware used in the treatment, pumping, monitoring and communications systems.
- Perform such other related duties as may be assigned.

Reporting Relationships:

Reports to: Superintendent of Technical Services

Supervises: Provides functional supervision to assigned Operations staff.

MINIMUM QUALIFICATIONS:

Education:

- Grade twelve or equivalent
- Must be a Journeyperson Industrial Electrician with a Certificate of Qualification in an Industrial Electrician trade issued under the N.S. Apprenticeship and Trades Qualification Act or another provincial equivalent. Consideration may also be given to candidates who are in the final stages of achieving this Certificate.
- Recognized courses in instrumentation and electronics to be considered an asset.

Experience:

- Minimum of five years industrial or construction experience in an industrial setting. Experience working in water and wastewater plants considered an asset.

Certificates / Licences / Registrations:

- A current Certificate of Qualification in an Industrial Electrician trade issued under the NS Apprenticeship and Trades Qualification Act or another provincial equivalent (or be able to attain within a reasonable timeframe as approved by the employer).
- Must have or be willing to obtain Operator Certifications - Level 2.
- Valid Class 5 Drivers License
- Must have or be willing to attend specialized training in PLC programming, SCADA and HMI applications.

Required Knowledge, Skills, Abilities:

- Demonstrated knowledge of mechanical equipment functions, such as pumps, motors, and valves.
- Capable of operating, configuring, integrating, and troubleshooting SCADA software systems.
- Demonstrated ability to communicate effectively, both orally and in writing.
- Demonstrated general knowledge of computerized environments, and familiarity with software pertinent to water and wastewater treatment facilities would be an asset.
- Demonstrated knowledge and ability to apply all applicable codes.
- Required to achieve and maintain other related certifications, including but not limited to, WHMIS, Confined Space Entry, and Transportation of Dangerous Goods.

Physical Demands/Working Conditions:

- Location: within treatment plants, outdoors and underground in an environment that includes dust, fumes, volatile organic compounds, noise, odor, heat, cold, etc.
- May be required to work alone.
- Utility Technologists are required to be on call on a rotational basis. During this time, must remain ready to work for the entire duration of the on-call schedule and will be compensated at a rate of \$500 per week. If called out, you will be compensated in accordance with the overtime rates.
- Frequently traveling throughout member communities within Atlantic Canada.

Hours of Work: 40 hours per week plus overtime

Rate of Pay: Base annual salary \$68,465 to 85,581 - Overtime and Standby pay will be in addition.

APPLICATION INSTRUCTIONS: Kindly forward all inquiries and applications to HR@AFNWA.CA. Application documents will only be accepted in .PDF or .DOC format. The applicant will receive an email confirming

that the application has been received and all attachments are accessible. Successful candidates will be contacted for next steps.