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Systems EI Control Technician

If you are committed to public service, enjoy collaborating with others, share our values and have a desire to learn and grow, join [The City of Calgary](#). City employees deliver the services, run the programs and operate the facilities which make a difference in our community. We support work-life balance, promote physical and psychological safety, and offer competitive wages, pensions, and [benefits](#). Together we make Calgary a great place to make a living, a great place to make a life.

The City is committed to fostering a respectful, inclusive and equitable workplace which is representative of the community we serve. We welcome those who have demonstrated a commitment to upholding the values of equity, diversity, inclusion, anti-racism and reconciliation. Applications are encouraged from members of groups that are historically disadvantaged and underrepresented. Accommodations are available during the hiring process, upon request.

As the Systems Electrical Instrumentation (EI) Control Technician - Journeyperson Electrician/Instrumentation Technician, you will provide electrical and instrumentation support in Field Operations facilities (wastewater collection, stormwater management, drinking water distribution systems). You will liaise with interested parties on process control systems projects with a primary focus on process control equipment installation and maintenance. Specifically, the Electrical Instrumentation Systems Control Technician installs, maintains, monitors, and troubleshoots Distributed Control Systems (DCS), Programmable Logic Controllers (PLC), Remote Terminal Units (RTU), Supervisory Control and Data Acquisition Systems (SCADA), and Building Management Systems (BMS) hardware and related electrical and instrumentation equipment. This position performs electrical and instrumentation project work related to control system upgrades as required for real-time process control systems. Primary responsibilities include:

- Repair/replace malfunctioning control system hardware. This includes Distributed Control System hardware, Programmable Logic Controllers and Remote Terminal Units.
- Install, configure, troubleshoot, and maintain field instrumentation and control devices, including calibration, preventative maintenance and configuration backups.
- Perform all planned preventative maintenance on control system hardware, including cleaning hardware, replacing filters and batteries, as well as Uninterruptible Power Supply (UPS) maintenance and configuration.
- Participate in new and rehab facility upgrades, including working with contractors in construction, commissioning, startup, and hand-over stages.
- Coordinate control system modifications and repairs with operations to minimize process upset.
- Prepare and maintain drawings, maintenance and troubleshooting manuals, commissioning and calibration records and related documentation.
- Participate in process control hardware configuration and tuning of process control parameters.

Qualifications

- A valid Journeymen Electrician certificate recognized by the Alberta Apprenticeship and Industry Training Board with Inter-Provincial certificate seal; OR
- A valid Journeymen Instrumentation certificate recognized by the Alberta Apprenticeship and Industry Training Board with Inter-Provincial certificate seal.
- At least 5 years of experience in the service, installation and implementation of control hardware, and related electrical and instrumentation equipment in water treatment, water pumping stations, lift stations, ponds and water storage facilities are required.
- Knowledge of smart field bus communication protocols and hardware configuration would be considered an asset.
- Candidates possessing both Instrumentation and Electrical certificates will be given preference.
- Successful performance in this position requires proficiency with both Microsoft office applications and control software applications, and excellent communication skills.

Pre-employment Requirements

- Successful applicants must provide proof of qualifications.

Union: IBEW Local 254
Position Type: 1 Permanent
Compensation: \$55.10 per hour
Hours of work: Non-Standard 40 hour work week
Audience: Internal/External

Business Unit: Water Services
Location: 651M 25 Avenue SE
Days of Work: This position works a 4 day work week.
Apply By: August 8, 2024
Job ID #: 310214

Apply online at www.calgary.ca/careers