

## Canadian Nuclear Laboratories – Control Maintainer

The incumbent of the position is responsible for install and service of a variety of plant systems including safety and security, energy delivery (hydraulic, pneumatic and electrical), communication, and process control systems. They also install and service measuring and indicating instruments to monitor processes and equipment. The incumbent must adhere to industry standards for installation, repairs, and safety. Decisions on tasks performed in this position will be based on the Red Seal Occupational Analysis or as defined in the Engineering Technology Profession.

CNL Employees perform all duties in accordance with established health and safety and regulations/guidelines, policies and procedures (i.e. utilizing personal protective equipment as per safe work procedures). Notifies management or supervisor of all occurrences, injuries, illnesses or safety and health concerns which are likely to harm themselves, their co-workers or any other on the premises in a timely manner and in accordance with established reporting requirements.

### Qualifications

#### Education

- Diploma in Instrumentation or Electronic Engineering Technology from an accredited post-secondary institution;
- Hold a valid M-I licence or willing to obtain
- Certified in the Province of Manitoba as a Certified Instrumentation Engineering Technologist (C.E.T.),
- or a Red Seal Instrumentation and Control Technician

#### Experience

- 5 years of related experience;
- Experience reading Blueprints;
- Experience interpreting the Manitoba and Canadian Electrical Codes;
- Working knowledge of the direct current and alternating current fundamentals, equipment and controls;
- Experience in a wide variety of industrial and commercial related work environments.

#### Abilities and Skills

The incumbent must have:

- Ability to read and interpret technical diagrams, blueprints and drawings;
- Able to install, maintain, repair and test various electrical components;
- Demonstrate proficiency in the use and application of applicable codes, regulations, and by-laws.
- Good comprehension skills to interpret drawings and code specifications.
- Willingness to keep up with new developments in the trade or profession.
- Must be able to calibrate instrumentation devices;

- Eye-hand coordination and dexterity and their ability to plan and think sequentially as well as three-dimensionally.
- Knowledge of metallurgy and the effectiveness of the equipment being used.
- Ability to operate a variety of hand and power tools; and, their ability to determine the most appropriate means of proceeding with the work.
- Mechanical and technical ability to troubleshoot and repair electronic/electrical, pneumatic and microprocessor-based systems, security, and test equipment.
- Knowledge of camera systems.
- Initiative and judgement to organize and maintain flow of work and accuracy of records;
- Must be punctual, dependable and safety minded;
- Detail oriented with the ability to meet deadlines;
- Exceptional organizational skills, able to prioritize and time management is required;
- Ability to understand detailed information is essential;
- Demonstrates responsibility and is accountable for accurately handling the details associated with one's work;
- Conscientious about accuracy;
- Ability to adapt to a changing environment and response with initiative;
- Excellent interpersonal communication skills and proven ability to maintain successful working relations at all levels within the organization and with external stakeholders; and
- Highly motivated and able to work with minimal supervision.
- Able to work extended hours and off normal work shifts to support project needs

### **Functions and Responsibilities**

Functions and responsibilities include but are not limited to the following:

- A Certified Engineering Technologist (C.E.T.) or a Certified Industrial Instrument Mechanic, installs, tests, repairs and monitors technical instruments used in schools, hospitals, laboratories, apartments and industrial complexes. Industry depends on the skills of the incumbent to ensure fire and burglar alarms, closed-circuit television systems, X-ray equipment, temperature sensors and other instruments are properly installed and are in good working order. Must have completed a recognized engineering technology program or apprenticeship with additional equivalent training.
- Work from drawings and sketches as required, able to provide material take-offs and labour estimates.
- Read, interpret engineering drawings and specifications as outlined.
- Assist with the development of work plans and upgrades in procedures and make recommendations of modification to equipment or changes to maintenance programs to improve reliability and efficiency of equipment;
- Prepare and maintain service records of all work completed and work required ensuring consistent recording and follow up;
- Complete reports and status sheet(s) as required;
- Read and interpret building plans, electrical, mechanical and architectural drawings and electrical code specifications to determine wiring installations;
- Cut, thread, bend, assemble and install conduits and other types of electrical conductor enclosures and fittings
- Ability to work in various types of protective clothing, including full face respirators

- Pull wire through conduits and holes in earth, walls, ceilings and floors;
- Lay out, assemble, install, repair, maintain, connect and test electrical fixtures, apparatus control equipment and wiring for fire alarm, communication, light, heat and power systems;
- Position, install and maintain distribution and control equipment such as circuit breaker panel boards, fuse enclosures, switch boxes, pull boxes and related devices;
- Splice, join and connect wire to form circuits;
- Install data cabling and fibre optic systems;
- Test electrical circuits to ensure integrity and safety;
- Apply Event Free Tools and Pre-Job Brief information throughout the execution of assigned work and models this behavior and knowledge to others;
- Completing work in a timely manner and within estimates and quality requirements; Maintain good housekeeping practices of all work areas, tools and equipment, adhering to provincial, federal regulations in order to provide a safe and efficient working environment;
- With limited supervision, use radiation sources to provide alpha and beta radiation fields to determine instrument response to radiation. Connect signal leads or computer interfaces as required.
- Initiate service requests and co-ordinates repairs with customers, other trades, powerhouse, or design staff.
- Responsible for estimating labour and scheduling work, ordering materials, specifying new equipment, and advising staff in the operation and capabilities of new and existing radiation monitoring equipment.
- Determine how equipment operates by looking at a diagram or blueprint.
- Maintains confidentiality in all matters.

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CNL has an Employment Equity Program and encourages applications from women, Indigenous Peoples, visible minorities and persons with disabilities.

CNL employees interested in the position please submit an internal competition application and résumé using our online posting board. This competition will remain posted until the position has been filled. Applications received after the closing date will be considered only after the initial selection process has been concluded and no successful candidate confirmed.