

City Surrey



**Title** Technologist 4 - Instrumentation Design

**Branch** Gas

**Department** Engineering Services

**Affiliation** MoveUP

**Job Status** Full Time Regular

**Starting Salary** \$2973 bi-weekly

**# of Positions Available** 1

**Responsibilities**

- Performs a wide range of complex technical functions relating to the research, location, development, design and installation of major instrumentation measurement and control communications and electrical systems.
- Interprets project requirements from a variety of information; establishes project parameters, consults with internal FortisBC organizational groups and external groups involved in the project and establishes criteria for system/technical improvements.
- Designs major modifications; investigates alternate designs/operating principles with consulting engineers, manufacturers, etc. Evaluates technical alternatives, prepares or evaluates new designs or standards or adapts existing standards as necessary.
- Prepares reports and makes recommendations regarding the proposed system based on the technical and economic feasibility of proposed alternatives. Prepares detailed engineering drawings, specifications, GWOs, shop work orders, Bills of Material and cost estimates; reviews tenders and drawings received for accuracy and conformity, selects, expedites and controls equipment and materials.
- Coordinates the progress of projects; prepares schedules, arranges for the manufacture of components and monitors the fabrication process.
- Devises and/or monitors commissioning and testing of prototype equipment; evaluates site problems, prepares feasibility studies and related reports.
- Performs a variety of complex technical calculations for related design proposals; devises and/or directs test programs, records assembling and assessing test data, arranges for test equipment and materials and laboratory testing.
- Maintains liaison with internal and external groups such as other FortisBC departments, field staff, consultants, manufacturers, contractors and government agencies concerning technical work on assigned projects; visits field sites to resolve technical problems, evaluate equipment and gather data; coordinates field inspections by other regulatory groups.
- Performs a variety of duties related to above projects; prepares schedules, progress reports, issues drawings, initiates correspondence, monitor and maintain progress, project records and files, assembles drawings, material lists, maps, survey data, photographs, environmental data and related information.

- Develops new or revises existing standards; evaluates technical and economic advantages of new and highly complex equipment and techniques for adaptation to existing gas distribution facilities.
- Provides technical advice and guidance on aspects of assigned work to other design staff, clerks, technicians and tradesmen. Reviews work methods and procedures and recommends improvements.
- Completes special studies; gathers relevant information related to assigned area, prepares graphs, tabulations, charts, sketches and drawings.
- Provides start-up assistance to operating staff as required in relation to above projects; provides training and advice to staff regarding systems, procedures and/or routines, develops special conversion procedures and writing operating instructions.
- Performs duties of a minor nature related to the above duties including driving a vehicle which do not affect the rating of the job.

#### **Requirements**

- Completion of a recognized post-secondary technologist diploma in Automation and Instrumentation, or equivalent.
- Certified or eligible for certification, at the technologist level, by the Applied Sciences Technologists and Technicians of British Columbia.
- Familiarity with the design and application of industrial automation and telemetry equipment such as remote terminal units (RTU), programmable logic controllers (PLC), data logging equipment, and wired/wireless data communications devices.
- Advanced computer literacy including familiarity with applications software in use in the department.
- Sound knowledge of applicable codes and standards.
- Demonstrated superior oral and written communications and presentation skills.
- Eight (8) years directly related relevant experience.
- Valid British Columbia Drivers license

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