

## Greater Vancouver Regional District

**Position Description: Flow Monitoring Technologist III (G423)**

**Sept. 2004**

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**Purpose:** The Flow Monitoring Technologist III will provide for and coordinate the delivery of regional flow monitoring/metering services to Operations, Maintenance and Engineering within the Regional District, as well as various member municipalities.

**Duties:** *(The duties described hereunder are to be representative of the position and are not to be considered as all-inclusive.)*

Plans, directs, coordinates, directs, and supervises the day-to-day activities of flow monitoring/metering crews and contractors, engaged in all aspects of the operations and maintenance of flow monitoring/metering services for the regional water, wastewater and drainage systems. This includes technical advice and assistance in all aspects of the work performed.

Provides on-the-job training of crew and new employees.

Oversees maintenance of all flow monitoring/metering facilities to a set acceptable standard.

Participates in, and makes recommendations for, design and construction of flow monitoring/metering facilities to ensure that new facilities meet operations and maintenance requirements.

Works with Engineering and Operations staff to determine and define their flow monitoring/metering requirements. Prioritizes and schedules the work of the Flow Monitoring/Metering crews. Meets with clients to ensure that the required data is collected and delivered in a timely manner.

Supervises the installation of flow monitoring/metering equipment. Calibrates, operates and maintains installed flow monitoring/metering equipment, rectifies operational problems and makes recommendations for suitable flow measurement sites. Performs velocity profiling at various flow conditions, assesses hydraulic conditions, downloads data, and performs preliminary data screening.

Provides quality assurance and quality control of flow data by checking, processing and storing flow monitoring data. Assists operations staff in data interpretation as required.

Assists in the preparation of the annual activity budget and carries out responsibilities within budgetary constraints.

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Assists in the preparation of flow monitoring/metering contracts, analyzes consultant bids and makes recommendations on contract awards. Reviews contract data and makes recommendations for progress payments.

Assesses flow monitoring equipment requirements for upgrades and replacement, researches new technologies and prepares recommendations for equipment purchases.

Inspects and reviews new installations and makes recommendations to correct deficiencies to meet District standards before acceptance.

Prepares technical documentation of procedures related to flow monitoring/metering activities.

Makes recommendations for, and assists in, the development of software for flow monitoring/metering work.

Establishes, updates and maintains a variety of records: ensures equipment and tools are in good condition. Makes recommendations for system improvements.

Works in compliance with all District safety policies, procedures and WCB regulations.

**Requirements:**

Graduation from an Institute of Technology Diploma program in Civil or Environmental Technology with a minimum of four (4) years related technologist experience in municipal water or sewer design and construction, or Flow Monitoring technology OR a Certificate in Technology plus five (5) years Flow Monitoring experience.

Extensive working knowledge of municipal/regional water, wastewater and drainage systems.

Strong working knowledge of hydraulics and related mathematical applications.

Must be able to read engineering drawings, plans and sketches.

Demonstrated ability to use computerized spreadsheets, databases and other related software effectively.

Proven ability to plan, organize, direct and supervise the work of others with a demonstrated ability to establish and maintain effective working relationships.

Extensive knowledge of WCB and Corporation safety regulations, safe work practices and procedures relating to municipal/regional water, wastewater and drainage systems.

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Ability to communicate effectively, both verbally and in writing, with contractors and staff in technical and functional terms.

Valid B.C. driver's license.