

Greater Vancouver Regional District

Position Description: Flow Monitoring Technologist I/II (G429/G430)

Sept. 2004

Purpose: To plan, direct, supervise and participate in the work of a crew engaged in all aspects of the operations and maintenance of the flow monitoring/metering activities in the GVRD's water and wastewater systems.

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

Plans, directs, supervises and participates in the work of a crew engaged in all aspects of the day-to-day operations and maintenance of flow monitoring/metering activities; provides technical advice and assistance in all aspects of the work performed.

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

Installs, hydraulically calibrates, maintains and operates flow monitoring equipment; performs minor repairs to flow monitoring equipment; rectifies operational problems and/or arranges for correction of same; selects suitable flow monitoring sites, performs velocity profiling at various flow conditions, assesses hydraulic conditions; downloads data, and performs preliminary data screening.

Provides quality assurance and quality control for flow monitoring/metering data. Checks, processes and stores flow monitoring data.

Updates and maintains a variety of records; ensures equipment and tools are in good condition and safety regulations are adhered to. Makes suggestions for system improvements.

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

May act as the Flow Monitoring Technologist III when requested.

Requirements:

Graduation from an Institute of Technology Diploma program in Civil or Environmental Technology; minimum of one (1) year related experience in municipal water or sewer design and construction; OR a Certificate in Technology plus two (2) years related experience; OR a combination of two (2) years Flow Monitoring experience and successful completion of technical training (BCIT or equivalent) as specified in the Notes* below

Demonstrated ability to effectively direct and supervise the work of others.

Ability to communicate effectively both verbally and in writing.

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Demonstrated initiative and ability to work effectively within a team environment.

Knowledge of hydraulics and mathematical equations applicable to open channel and closed conduit pipe flow.

Considerable knowledge of municipal/regional water, wastewater and drainage systems including the ability to read drawings, sketches and plans.

Demonstrated ability to use computer spreadsheets and database tools. Familiarity with related software applications.

Considerable knowledge of safety policies, procedures and practices relating to municipal/regional water, wastewater and drainage work and knowledge of applicable WCB regulations.

Valid BC driver's license.

*** NOTE 1:** The Technical Requirements for the Flow Monitoring Technologist I position are: Hydraulics 1 (Civil 1204), Circuit Analysis (ACTELX 1102), Hydrology (Civil 1040), Math 12, Physics 12, Excel 1 and 2 (In-House), Word 1 and 2 (In-House), Access 1 (In-House), XP Advanced (In-House)

*** NOTE 2:** This position may progress to Flow Monitoring Technologist II when the following requirements are met:

Staff meeting the Diploma requirement – after 1 year's experience

Staff meeting the Certificate requirement – after 2 years experience

Staff without a Diploma or Certificate – after 5 years experience and successful completion of the following courses:

Hydraulics 2 (Civil 3042), Technical Communications (Civil 1135), Circuit Analysis (DCTELX 1103), Electronics Troubleshooting (TELX 1104), Municipal Service (Civil 4122)