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where people
want to be

Position Title: *Project Engineer (Hydraulic Modelling)

Position Status: Full-Time Regular

Department: Water Services

Employee Group: Exempt

Location: 4515 Central Boulevard, Burnaby

Salary Range/ Wage Rate: Professional / Technical, Level 2A (\$108,607.20 - \$127,710.87 annually) (2024 wage rates)

Our Water Services Department is seeking a Project Engineer who will perform a range of activities, including hydraulic modelling, various types of data analysis, providing technical support to internal project teams and external consultant-led projects, optimizing system operations, and providing technical guidance in the planning of growth projects for the region.

You are a self-starter with a passion for working collaboratively towards solutions that establish a solid foundation for Metro Vancouver's water supply system planning, modelling, and analysis of current and future perspectives. You have a desire to bring your creative ideas to deliver our services, while contributing to a sustainable and resilient region.

The Project Engineer reports to the Senior Engineer, Infrastructure Strategy, Modelling & Data Analytics.

This role:

- Performs hydraulic analysis for the planning, design and operation of our water supply system, and provides technical expertise to support the development of growth projects in the long-range capital plan.
- Performs a range of engineering and project management work including design; document preparation; specifications; contract administration; budgetary oversight; cost estimates; scheduling; and report writing.
- Prepares and tracks financial aspects of projects and provides project management oversight for multiple projects including contract administration. Sets and monitors project schedules. Monitors and controls costs within own work ensuring the effective and efficient expenditure of allocated funds making recommendations to senior engineers.
- Works on routine engineering projects and substantial components of complex engineering initiatives. Works to defined scope, schedule and budget and consults senior staff on deviations. May lead projects with well-defined outcomes and acts as a resource to junior engineers and technical staff on routine operational issues.
- Handles problems of some complexity requiring inspection and liaison with contractors and other staff to investigate related operating, construction, and design issues in order to ascertain alternatives. Assesses,

evaluates and incorporates technical requirements including input from external agencies and other Metro Vancouver departments. Explains difficult issues and works to establish consensus and compliance.

- Works with engineering staff and consultants and liaises with internal departments and external contacts including member municipalities, regulatory agencies and the general public; works on multiple simultaneous projects in various stages of completion.
- Researches, analyzes, interprets, and studies technical information. Makes conclusions and diagnoses problems based on a sound understanding and application of engineering principles. Ensures quality standards are upheld in the field of specialization and establishes project plans based on priorities of the unit or team.
- Identifies non-standard conditions and makes recommendations for remedy. Uses judgment to adapt and apply procedures to address and resolve unusual or problem situations. Consults on difficult, complex or highly unusual matters or decisions and provides progress and technical updates to senior staff.
- Performs other related duties as required.

To be successful, you have:

- Bachelor of Applied Science degree in Civil, Environmental, Water Resources/Hydrotechnical, Agricultural, Bio-Resources engineering or a relevant engineering discipline. Necessary work experience to obtain Professional Engineer designation.
- Membership or eligibility for immediate membership as a registered Professional Engineer (P.Eng.) with Engineers and Geoscientists of British Columbia (EGBC).
- Experience using hydraulic modelling tools such as InfoWater Pro, EPANET, MIKE+ and analyzing geospatial (GIS) and time series data as it relates to water transmission systems, river and reservoir systems modelling and infrastructure planning.
- Experience in water distribution system master plan development or experience using the InfoWater Pro or EPANET hydraulic modelling tools over multiple years will be given preference.
- Sound technical knowledge and understanding of engineering principles and their application in planning, modelling, and analyzing data.
- Ability to interpret and apply standard engineering and related guidelines to the area of specialty such as technical manuals, codes and regulations, contracting policies, safety regulations and corporate and board policies.
- Demonstrated contract administration and project management skills. Ability to organize and prioritize a complex series of project components to meet multiple time-based deliverables requiring a high level of detail and accuracy. Demonstrates persistence to overcome obstacles.
- Sound written and oral communication skills; ability to communicate effectively both verbally and in writing, including letter, report writing, and presentation skills. Ability to explain difficult issues and works to establish consensus and compliance.
- Strong interpersonal skills and ability to build and maintain effective and respectful working relationships with internal and external contacts. Skill in dealing tactfully and sensitively in a variety of situations including contact with the public, member municipalities, government agencies and contractors.
- Ability to work under general direction and use sound independent judgment in adapting and applying procedures to address and resolve unusual or problem situations. Uses judgment to determine which methods are applicable in any given situation. Sound problem-solving skills; ability to analyze business needs and provide strategic input.
- Demonstrated ability to work in a team-oriented work environment; contributes to the team with constructive ideas, information and experiences.

- Strong analytical and research skills and ability to present recommendations clearly. Displays a high degree of integrity and professionalism.
- Proficiency using hydraulic and hydrologic modelling tools will be considered an asset.
- Proficiency using Microsoft Office programs, including Word, Excel, Outlook, and Project.
- Valid B.C. Class 5 Driver's license.

****Candidates with lesser experience may be considered at the Assistant Project Engineer level, along with the applicable rate of pay.***

Our Vision:

Metro Vancouver embraces collaboration and innovation in providing sustainable regional services that contribute to a livable and resilient region and a healthy natural environment for current and future generations.

Metro Vancouver employees proudly serve the region and demonstrate the behaviours and attributes of six leadership competencies: Accountability, Adaptability, Building and Nurturing Relationships, Communication, Continuous Learning, and Strategic Thinking and Action.

At Metro Vancouver, we are committed to cultivating a diverse, safe, equitable, and inclusive work environment for all. We strive to attract and retain a talented, diverse workforce that is reflective of the region we serve. If an accommodation is required during the recruitment and selection process, please contact careers@metrovancover.org for support. Learn more about our commitments to diversity, equity, and inclusion [here](#).

Please follow this link <https://metrovancover.org/about-us/careers> to our Careers page where you can submit your application by August 24, 2026.