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Position Title: Senior Engineer (Modelling & Analysis)

Position Status: Full-Time Temporary (This position to last not later than March 5, 2027)

Department: Water Services

Employee Group: Exempt

Location: 4515 Central Boulevard, Burnaby

Salary Range/ Wage Rate: Professional/Technical, Level 4B (\$5,317.15 - \$6,255.30 bi-weekly) (2024 wage rates)

Our Water Services Department is seeking a Senior Engineer who will provide technical expertise and leadership to the modelling portfolio within the Infrastructure Strategy, Modelling and Data Analytics (ISMDA) team. You will lead a team of technical staff to coordinate various hydraulic and hydrologic modelling tasks to inform infrastructure investment for the regional water system and the reliable provision of drinking water for the growing region.

You are: an effective and efficient problem solver with excellent communication and interpersonal skills. You have extensive knowledge of water utility modelling, interpretation of hydraulic analysis results for infrastructure design, system operation, and planned outage and experience with long-range planning for water system infrastructures.

The Senior Engineer reports to the Program Manager, Water System Modelling & Data Analytics.

This role:

- Works as a technical/specialist resource and provides leadership for specialized and/or complex engineering and analysis works using various hydraulic modelling tools, , project management and technical work.
- Provides interpretation and guidance on technical issues, corporate policies, and project management. Ensures work is undertaken in conformance with corporate standards and policies and acts as technical resource to staff throughout the organization in area of specialty. Makes independent decisions and recommendations within broad policies and mandates. Uses judgment and ingenuity to devise practical and economical solutions to problems.
- Develops or provides input to technical standards, policies and procedures in accordance with corporate objectives. Considers all relevant information such as applicable design codes, specifications and previous experience.
- Responsible for budget administration, preparation and reporting. Monitors and controls spending ensuring the effective and efficient expenditure of allocated funds. Contributes to the preparation of long range financial plans and provides input to strategic initiatives.

- Makes decisions and/or recommendations on hiring engineering and technical consultants based on workload, costing, scheduling, expertise, and other factors. Oversees work carried out by multi-disciplinary consultants and contractors, including reviewing and providing direction on water infrastructure design. Ensures work is undertaken in conformance with corporate standards and policies, and meets the requirements of the project.
- Prepares and reviews a range of written materials including reports, recommendations, technical memoranda and technical specifications. May deliver presentations for various audiences including the public, as required.
- May supervise or manage a small team of professional and/or technical staff engaged in complex technical applications. Monitors performance towards division, department and corporate objectives and ensures staff adhere to workplace conduct and purchasing policies.
- Works collaboratively with staff to resolve complex technical, design, operational, or relational issues staff encounter while doing their work. Facilitates information sharing among staff to transfer knowledge and experience and increase the efficiency and effectiveness of the team.
- Establishes effective working relationships with various outside agencies as well as other internal departments. Works collaboratively with departmental staff to deliver on strategic initiatives.
- May collaborate with senior engineers, management and/or government officials in the development of regulatory or government policy initiatives which affect Metro Vancouver.
- Upholds Metro Vancouver's reputation through positive and forthright dealings with other organizations and members of the public. Understands the organizational culture and the processes/mechanisms necessary to attain work objectives. May provide advice, recommendations and follow up to the Metro Vancouver board, committees and municipal councils.
- Performs other related duties as required.

To be successful, you have:

- Bachelor of Applied Science Degree in a relevant Engineering discipline. 8-10 years of recent related experience following professional registration; or an equivalent combination of training and experience.
- Membership or eligibility for immediate membership as a registered Professional Engineer (P.Eng.) with the Engineers and Geoscientists of British Columbia (EGBC).
- Extensive technical expertise and understanding of relevant hydrologic and hydraulic engineering principles. Ability to interpret, apply and advise others on engineering and related guidelines such as technical manuals, codes and regulations, contracting policies, safety regulations and corporate and board policies. Ability to adapt or adjust guidelines and procedures for unique or problem situations.
- Extensive technical knowledge/expertise of water utility modelling, river and watershed modelling and water demand projection modelling will be considered an asset.
- Proficiency using industry-standard hydraulic and hydrologic modelling software such as InfoWater Pro, EPA-NET, MIKE+, and/or other relevant water system-related modelling tools will be considered an asset.
- Superior written and oral communication skills including sound report writing and presentation skills. Ability to communicate complex information and implications to diverse audiences. Ability to explain difficult concepts and persuade others to adopt a point of view or way of doing things.
- Strong interpersonal skills and ability to build and maintain effective working relationships. Skill in dealing openly, tactfully and sensitively in a variety of situations. Ability to effectively lead project work and multidisciplinary teams. Deals effectively with disagreements and prevents the escalation of conflict.

- Proven ability to use judgment to resolve complex problems, take initiative and work with minimal supervision; seeks solutions in congruence with the organization's objectives and values. Ability to develop and revise procedures and plans to address problems and changing circumstances. Works cooperatively to resolve differences of opinion.
- Proven contract administration and project management skills and excellent attention to detail including troubleshooting and resolving complex contractual issues. Demonstrated ability to lead a complex series of project components and deliver projects on time and on budget.
- Ability to manage a complex portfolio of work while establishing ambitious and challenging goals; demonstrates persistence in overcoming obstacles. Responds to changing priorities due to internal or external pressures resulting in revised schedules and a reallocation of resources.
- Ability to supervise, coach and guide others while enhancing individual and team effectiveness. Ability to mentor and foster the development of direct reports.
- Proficiency using Microsoft Office programs including Word, Excel, Outlook and Project.
- Valid BC Class 5 Driver's License.

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 April 13, 2026.