



**Position Title:** Senior Engineer, EIC

**Position Status:** Full-Time Regular

**Department:** Water Services

**Employee Group:** Exempt

**Location:** 4515 Central Boulevard, Burnaby

**Salary Range/ Wage Rate:** Professional / Technical, Level P4B (\$138,719.13 - \$163,194.52 annually)

**Our Water Services Department is seeking a Senior Engineer who will be responsible for providing electrical, instrumentation, controls design, project management, construction management and commissioning expertise for Water facilities. The Senior Engineer will act as an Owner's engineer for large Water projects on behalf of Metro Vancouver. The successful applicant will thoroughly read and understand Metro Vancouver EIC Installation standards, EIC specifications, electrical safety standards, and enforce them on projects assigned.**

**You are: A well-rounded electrical generalist Professional Engineer with solid technical design and field experience in industrial process facilities. You have a proven track record as an electrical project discipline lead and in the management and guidance of electrical and instrumentation projects. The ideal candidate will already be familiar with applicable industrial codes, standards, and best practices in Canada.**

**The Senior Engineer reports to the Division Manager, Engineering E&C Water Services.**

**This role:**

- Works as a technical/specialist resource and provides leadership for specialized and/or complex engineering, project management, and technical work. Determines Metro Vancouver EIC deliverables required for each project, what stage they are to be received, and comment on the quality and completeness of the deliverable to the project manager. Advises project managers when specific EIC deliverables or tasks are to be provided to other internal/external EIC resources for either consultation or action in order to help the project execute smoothly and in a timely manner.
- Performs complex and varied electrical, instrumentation and controls (EIC) engineering and project management work that involves project design and management for small to large projects. Analyzes and assesses EIC system requirements for new projects. Recommends optimal methods for achieving objectives and provides technical direction for the application of new equipment and upgrade of existing equipment; assists in supporting existing systems.

- Responsible for project management, scope definition, cost estimating, detailed design, planning, inspection, budget administration, preparation and reporting, and commissioning and technical support of EIC systems for water transmission and treatment facilities of varying size and complexity. 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.
- 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. Applies principles and practices of the profession to ensure results are achieved in a technically sound and practical manner.
- 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 design, construction and claims. Ensures work is undertaken in conformance with corporate standards and policies, and meets the requirements of the project.
- Prepares and reviews project designs, technical reports and contract specifications for consulting services, equipment and construction. Acts as Metro Vancouver's appointed representative in assigned matters of project and contract obligations including project initiatives, site inspections, and determination of regulatory requirements. May be required to negotiate significant technical or financial interest on behalf of Metro Vancouver.
- 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 professional engineers and/or technical staff engaged in complex technical work. Peer reviews the work of colleagues and provides guidance to consulting engineers and technical staff. Acts as a EIC discipline lead or resource to staff members on multidiscipline projects. May be a resource for presentations and questions to the Metro Vancouver board, committees and municipal councils.
- 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 work as a technical/specialist resource, collaborating 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 Electrical Engineering or equivalent 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 as an electrical engineer generalist in the design and construction of industrial process facilities. Sound technical knowledge and understanding of electrical, instrumentation and control system engineering principles and applications with emphasis in the areas of electrical distribution systems and equipment up to 25kV; grounding; lighting and cable tray systems; variable speed drives; standby generators; interface with control systems and instrumentation. 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. Sound knowledge of the Canadian Electrical Code.
- 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 within established guidelines and procedures, 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 and use judgment to determine which methods are applicable in any given situation. 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, organize, and prioritize a complex series of project components for large complex projects to meet budget and multiple time based deliverables requiring a high level of detail and accuracy.
- 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. Knowledge of power system software (EasyPower) will be an asset.
- 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.

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

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accommodation is required during the recruitment and selection process, please contact [careers@metrovancover.org](mailto: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 June 7, 2024.*