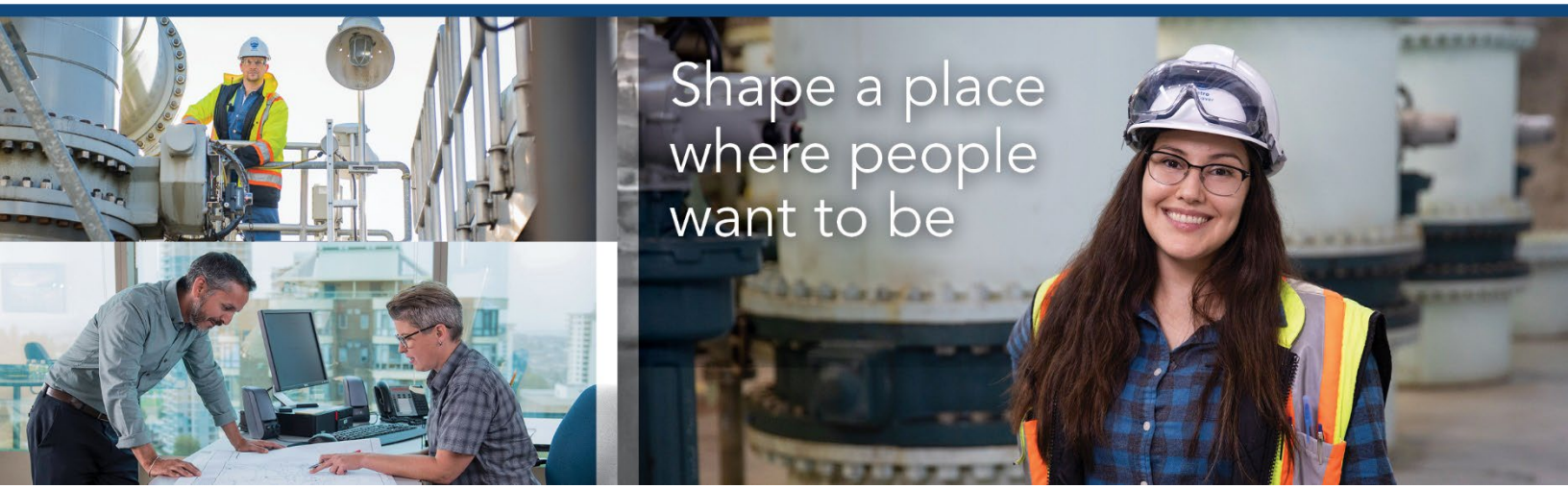
metrovancouver



Position Title: *Senior Project Engineer (Electrical)
Position Status: Full-Time Regular
Department: Liquid Waste Services
Employee Group: Exempt
Location: 4515 Central Boulevard, Burnaby
Salary Range/ Wage Rate: Professional / Technical, Level P3A ($123,587.51 - $145,395.95 annually) (2024 wage rates)

Our Liquid Waste Services Department is seeking a *Senior Project Engineer who will join the Maintenance and Reliability Engineering team. This role will involve providing ongoing technical support to the field maintenance service team offering electrical and instrumentation design expertise, and delivering project management support for both wastewater treatment plants (WWTP) and liquid waste collections and drainage systems.

You are: An Electrical Professional Engineer with strong technical design and field experience with industrial process facilities, including WWTP, pump stations and collection system. You have a proven track record as an Engineer of Record (EOR) and as a project manager on multidisciplinary projects. Experience in designing electrical infrastructure for municipal government will be considered as an asset.

The Senior Project Engineer reports to the Lead Senior Engineer.

This role:

- Performs complex and varied electrical, instrumentation and controls (EIC) engineering design, root cause analysis, asset loss investigations, and multidisciplinary project management work for wastewater treatment plant facilities, collection systems and pump stations. Applies principles and practices of profession to ensure results are achieved in a sound and practical manner. Acts as an EOR for in-house electrical projects and acts as a subject matter expert for large capital projects.
- Analyzes and determines EIC system requirements for new projects. Recommends optimal methods for achieving objectives and provides technical direction for the application of new equipment and upgrades of existing equipment; assists in supporting existing systems.
- Responsible for overall project budgets and monitors and controls costs ensuring the effective and efficient expenditure of allocated funds. Develops and reviews RFQ's, RFP's and tenders, working with Purchasing to ensure the timely award of contracts. Contributes to the preparation of long-range financial plans and provides input on strategic initiatives. Participates in short and long range planning.

- Provides guidance to field staff on technical issues, and makes decisions and provides recommendations on a variety of issues with broad policies and mandates as guidelines. Uses ingenuity to devise original, practical and economical solutions.
- 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.
- Directs the actions of consultants recommending changes to scope and negotiating new terms as required. Deals with full range of project dimensions that may include legal, property, public contact, and liaising with various levels of government, and other regulatory bodies.
- 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.
- Works collaboratively with field staff to resolve complex technical, design, operational, or interpersonal issues staff encounter while doing their work. Establishes effective working relationships with various outside agencies as well as other internal departments. Works collaboratively with departmental staff to deliver on strategic initiatives.
- Explains difficult concepts and persuades others to adopt a point of view, supports position with evidence, research or experience gained in similar situations. Typically acts as a project leader and actively works to encourage teamwork, collaboration and efficiency.
- May supervise professional engineers, EIT 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 resource to staff members for advice and guidance on potential approaches and problem situations. May be a resource for presentations and questions to the Metro Vancouver board, committees and municipal councils.
- 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 affecting Metro Vancouver.
- Participates in the design, preparation and approval of engineering standards in area of specialty.
- Performs other related duties as required.

To be successful, you have:

- A Bachelor of Applied Science degree in Electrical engineering discipline. Demonstration of competencies and a minimum of 4 years post-registration (P.Eng) experience; or Demonstration of competencies and minimum of 2 years' post-registration (P.Eng) with a minimum of 8 years total of directly relevant engineering experience is required; or an equivalent combination of training and experience.
- Membership or eligibility for immediate membership as a registered Professional Engineer (P.Eng.) with Engineers and Geoscientists of British Columbia (EGBC).
- Sound technical knowledge and understanding of electrical, instrumentation and control system engineering principles and their application 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 and instrumentation. Knowledge of automation systems is an asset. Ability to act as a resource to staff and provide sound and practical guidance for unusual or problem situations.

- Ability to interpret and apply engineering and technical guidelines and principles related to area of specialization 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 difficult situations.
- Proven contract administration and project management skills in multidisciplinary project environment. Demonstrated ability to organize and prioritize a complex series of project components for large complex projects to meet multiple time based deliverables requiring a high level of detail and accuracy. Ability to resolve problems within established guidelines and procedures; ability to use judgment to determine which methods are applicable in any given situation.
- Excellent written and oral communications skills. Ability to communicate effectively both verbally and in writing including letter, report writing and presentation skills. Ability to explain difficult concepts and persuades others to adopt a point of view or way of doing things.
- Strong interpersonal skills and the ability to build and maintain respectful working relationships with internal and external contacts under circumstances that are considerably complex and time sensitive. Skill in dealing openly, tactfully and sensitively in a variety of situations including dealings with the public, member municipalities, government agencies and contractors. Demonstrated ability to work in a team oriented work environment and deal effectively with disagreements and prevent the escalation of conflict.
- Ability to work under broad direction and use significant independent judgment to problem solve when more than one option is possible. Ability to identify opportunities to address emerging needs. Proven ability to take initiative, work with minimal supervision and effectively manage multiple projects and deadlines. Ability to meet timelines and objectives requiring persistence to overcome obstacles.
- Demonstrates understanding of the organizational culture, processes and mechanisms necessary to attain work objectives; upholds Metro Vancouver's reputation through positive and forthright dealings with other organizations and members of the public.
- Ability to supervise, coach and guide others while enhancing individual and team effectiveness. Ability to mentor and foster the development junior engineer, technical staff and direct reports as required.
- Proficiency using Microsoft office programs, including Word, Excel, Outlook, and Project.
- Valid BC Class 5 Driver's license.

Candidates with lesser experience may be considered at the 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@metrovancouver.org for support. Learn more about our commitments to diversity, equity, and inclusion here.

Please follow this link https://metrovancouver.org/about-us/careers to our Careers page where you can submit your application by September 29, 2026.