



Senior Water Resource Engineer – Park Board, Green Infrastructure

Requisition ID: 30175

Company:

Located on the traditional, ancestral and unceded lands of the Musqueam, Squamish, and Tsleil-Waututh, Vancouver has a commitment to becoming a City of Reconciliation. Vancouver consistently ranks as one of the world's most liveable cities and is working towards being the greenest city in the world. Named among Canada's Top 100 Employers, BC's Top Employers, and Canada's Greenest Employers, the City of Vancouver seeks colleagues who can help shape and embody our core commitments to sustainability, decolonization, equity and outstanding quality of life for all residents.

Consider joining our committed team of staff and being part of an innovative, inclusive and rewarding workplace.

Main Purpose & Function

The Senior Water Resource Engineer position focused on green infrastructure design and delivery within the Park Board system, and will provide leadership and engineering expertise to the Park Planning, Park Development, and Park Operations teams. This role will have support from the Engineering - Green Infrastructure team, and be responsible for implementing the Vancouver's Rain City Strategy - Parks and Beaches Action Plan, This new position will have a key role in implementing parts of the Park Board's Biodiversity Strategy and Parks and Recreation Services Master Plan (VanPlay) to build an ecological network that supports nature across the city, and reduce potable water consumption. The position will be focused on immediate application of green infrastructure strategies to support the multiple benefit objectives of rainwater integration into parks, internal and external design, construction and asset management.



Given the high public profile nature of Vancouver's parks, this position will support the City's efforts to be a leader in holistic and integrated approaches to water management and green infrastructure to help shape a more livable, equitable and resilient city that helps revive its urban watersheds and ecosystems. Rainwater integration projects at various scales within parks have already been identified in concept, but this position is needed to advance them to implementation. .

Specific Duties and Responsibilities

- Provide senior engineering leadership, expertise and technical guidance to support ambitious green infrastructure plans for rainwater integration into parks
- Develop and apply frameworks to identify, evaluate, and prioritize integration of rainwater management and green infrastructure in parks. Estimate project budgets in order to seek funding as capital projects
- Develop guidance materials and processes related to capital design, construction, establishment, operations and maintenance, monitoring and performance evaluation plans for green infrastructure in parks
- Advise on playing field redevelopment projects, and how to best manage drainage and irrigation requirements with existing assets, synthetic and natural
- Prepare materials and design specification package, design concept development, inter-departmental liaison, design reviews and approvals, construction inspections as well as compliance review for internally and externally designed green infrastructure
- Develop and manage consultant and construction contracts (including scopes of work, requests for proposals and contract execution), develop budgets for infrastructure capital works and forecast operational and maintenance needs for capital works
- Develop frameworks, processes and metrics by which to evaluate and learn from the design, construction, maintenance



- and performance of GI installations and to support continuous improvement in our implementation efforts
- Liaise with other City departments to coordinate the design, planning and construction of green infrastructure in parks
 - Provide strategic and technical support for major, city-led planning or policy initiatives that require an integrated approach to rainwater management
 - Represent the Park Board and Green Infrastructure Implementation Branch in departmental and organizational strategic plans and planning programs
 - Prepare technical reports, council reports, presentations, letters & memos

Qualifications

Education and Experience:

- Bachelor's degree in Civil, Water Resource or Environmental Engineering
- Minimum 7 years of experience as a professional engineer
- Registration or eligibility to register as a Professional Engineer in British Columbia
- A demonstrated interest, working knowledge, and experience in the application of ecology and Park Board priority areas related to wetland habitat, biodiversity, environmental education, and passive recreation.

Knowledge, Skills and Abilities:

- A sound understanding of the engineering principles related to the design and construction of green infrastructure and other rainwater management systems, including hydrology, water quality, levels of treatment, and life-cycle management
- Strong leadership, communication, and collaboration skills
- Strong project management experience to effectively deal with multiple tasks of moderate complexity
- Experience reviewing and providing direction on designs developed by external consultant teams, construction field



- inspections and lifecycle asset management for green infrastructure
- Experience developing and managing consultant and construction contracts
 - Excellent interpersonal and written and verbal communication skills
 - Strong knowledge or skill in using computer software such as AutoCAD, Word, Excel and PowerPoint
 - Ability to work independently and to provide professional interdisciplinary advice and technical guidance while functioning effectively in a team environment

Business Unit/Department: Engineering Services (1300)

Affiliation: Exempt

Employment Type: Temporary Full Time

Position Start Date: September, 2021

Position End Date: September, 2023

Application Close: August 11, 2021

At the City of Vancouver, we are committed to recruiting a diverse workforce that represents the community we so proudly serve. Indigenous applicants, people of colour, all genders, LGBT2Q+ and persons with disabilities are encouraged to apply. Accommodations will be provided upon request during the selection process. [Learn more about our commitment to diversity and inclusion.](#)

To be considered for this exciting and impactful career opportunity with a generous benefits package, please apply on our careers site.

Please apply via the City of Vancouver careers page [here](#)