



SENIOR ENGINEER

Job ID: 23913

Job Category: Engineering & Technical

Division & Section: Toronto Water, TW Water Infrastructure Management

Work Location: Metro Hall, 55 John Street, Toronto, ON M5V 3C6

Job Type & Duration: Full-time, Permanent, Vacancy

Salary: \$115,360.00 - \$144,200.00

Shift Information: Monday to Friday, 35 hours per week

Affiliation: Non-Union

Number of Positions Open: 1

Posting Period: 26-Dec-2022 to 22-Jan-2023

Job Description:

The Water Infrastructure Management Section is seeking a Senior Engineer under the following unit:

Reporting directly to the Manager, Asset Strategy & Maintenance Planning, the Senior Engineer will be responsible for the development of the Reliability Program for assets resulting from over \$500 million in capital project investments annually into Toronto Water's facilities. The development of the Reliability Program will include working with internal and external stakeholders to the capital delivery process to communicate expectations on a comprehensive package of "as-built" deliverables, retaining additional consultants to address gaps in deliverables, providing direction to a dedicated team sustaining Toronto Water's Work Management System and improving data quality and standards for deliverables. The Senior Engineer will also be involved in supporting innovations on data and platform integrations, including the use of BIM and an Asset Strategy Management Platform.

Major Responsibilities:

- Manages assigned projects, ensuring effective teamwork and communication, high standards of work quality and organizational performance and continuous learning.
 - Conducts research and provides input to the development of policies, programs and technical design guidelines and in response to initiatives led by other units, divisions, agencies, and other levels of government.
 - Ensures that all assigned projects are controlled and completed within established timeframes and approved budget limitations.
 - Leads, and collaborates in, the development of multi-year capital programs.
 - Participates in the preparation of capital and operational budgets.
 - Deals with complex cost-sharing arrangements for municipal infrastructure projects.
 - Leads staff and consultants to deliver studies, projects and programs related to infrastructure management and master planning.
 - Leads, or participates in, multi-disciplinary project teams, supervises/directs internal and external professional engineers and technical personnel, and mentors colleagues.
 - Provides technical review and advanced engineering input, as required, to other sections and divisions on matters related to municipal and environmental engineering.
 - Reviews, and comments on, engineering design reports and drawings.
 - Monitors capital project expenditures, identifies cash flow needs and projects year-end actuals.
 - Reviews, and comments on, legislation, bylaws, guidelines and procedures.
 - Represents Toronto Water as a technical specialist at meetings with Standing Committees, internal staff, and external agencies, and consults with members of the public, external clients and consultants.
 - Prepares technical reports, Committee and Community Council reports and content for public
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education/communication purposes, as required.

- Prepares capital business cases, project charters, RFP, RFQ, REOI, terms of reference, and scope of work for consultant assignments, including selection and direction of consultants undertaking professional services for Toronto Water.
- Prepares and makes presentations to senior Department staff, elected officials and the public.
- Maintains relations with Councillors, the public, other units throughout the City, consultants, other levels of government, government agencies, developers, suppliers and contractors to ensure effective partnerships related to the job function.
- Analyzes the continuous improvement and control measures for quality, efficiency and effectiveness of services and formulates recommendations.
- Keeps informed of, investigates, implements, and evaluates new work techniques, technologies and performance standards
- Assists the manager in defining and allocating work and setting goals.
- Performs other related duties, as assigned.

Key Qualifications:

1. Must be a qualified engineer as defined by Professional Engineers Ontario.
2. Post-secondary education in Engineering with a specialization pertinent to the job responsibilities (e.g. reliability engineering; capital delivery; capital planning; asset management; data analytics for water, wastewater and stormwater systems) or an approved equivalent combination of education and experience.
3. Extensive experience as a Professional Engineer (e.g. analyzing, planning, modelling and design management, and contract management, etc.), with a preference for a focus on complex water, wastewater, and storm water management infrastructure demonstrating a high level of proficiency in terms of workload management, identification and resolution of critical and/or complex engineering problems, and ability to ensure the success of a project/program and to link technical details to large-scale matters.
4. Extensive experience in reliability engineering, asset management, and/or capital delivery of complex infrastructure, including developing and maintaining infrastructure inventory databases, development of preventive and predictive maintenance programs, mapping of asset lifecycles, infrastructure condition assessment, condition-based monitoring technologies, risk assessment, studies, infrastructure renewal costing and priority setting.
5. Experience using software pertinent to the job function, including Geographical Information System (GIS) applications, computerized maintenance management systems (CMMS), and modelling software in infrastructure asset management.
6. Experience in the development of Capital Budgets, including planning, scheduling, prioritizing and costing of projects.
7. Possession of, and ability to maintain, a valid Province of Ontario class "G" driver's licence and eligibility to qualify for a City driver's permit.
8. Excellent communication and analytical skills to write policy documents, technical reports, briefing notes, reports to Committee and Council, and responses to inquiries by external agencies and the public, and presentation abilities.
9. Fundamental knowledge of federal, provincial and municipal regulations, policies and guidelines related to the job (e.g. Occupation Health & Safety Act) and applicable to water, wastewater and stormwater systems, infrastructure planning and management.
10. Project and stakeholder management skills to plan, lead, manage and implement multidisciplinary projects varying in scope.
11. Proficiency in various competencies, including highly developed interpersonal, employee relations, negotiation, conflict resolution, leadership and problem-solving skills, with the ability to interact effectively with all levels of the organization and to forge solid internal and external relationships.

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How to Apply:

For more information on this and other opportunities with the City of Toronto, visit us online at <https://jobs.toronto.ca/jobsatcity/>. To apply online, submit your resume, quoting **Job ID 23913**, by **Sunday, January 22, 2023**.

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Accommodation

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Should you require Code-protected accommodation through any stage of the recruitment process, please make them known when contacted and we will work with you to meet your needs. [Disability-related accommodation during the application process is available upon request. Learn more about the City's Hiring Policies and Accommodation Process](https://jobs.toronto.ca/jobsatcity/content/Hiring-Policies-and-Statements/?locale=en_US) < https://jobs.toronto.ca/jobsatcity/content/Hiring-Policies-and-Statements/?locale=en_US >.
