

Waterworks Maintenance Reliability Engineer

Regular Full Time

Markham, ON, CA

Requisition ID: 2919

Salary Range: \$97,278 to \$ 114,475 Annually

The City of Markham, an award-winning municipality with more than 353,000 residents, is Canada's high-tech capital and most diverse community, enjoying a rich heritage, outstanding community planning and services, and a vibrant local economy. Committed to being a model of public service excellence, with a workforce that is representative of the population we serve, we are looking for people who share our values and are champions of innovative practices. Diversity is one of Markham's strategic priorities, and we strive to develop and maintain an environment that is inclusive and creates a sense of belonging for all.

We are pleased to be named one of Canada's Best Employers for 2022 and the best City employer by Forbes for the second consecutive year. The City of Markham is ranked in the top two for Government Services and 15th among the 300 employers on the list, advancing from 18th place in 2021.

Applications are now being accepted for the above regular full-time position in the Environmental Services Department, Community Service Commission. To apply, please submit your cover letter and resume on-line at <https://www.markham.ca/careers> by **July 3, 2022**.

JOB SUMMARY

Reporting to the Sr. Manager of Waterworks Operations, this position will be responsible for development, update and monitoring of preventative maintenance for water, wastewater and stormwater assets in accordance with the Waterworks Operations asset management objectives. The Waterworks Maintenance and Reliability Engineer will ensure effective maintenance services in conformance with City standards and best management practices, as well as in compliance with applicable legislation and regulations.

KEY DUTIES AND RESPONSIBILITIES (DELIVERABLES)

- Work collaboratively with Waterworks Supervisors and staff to ensure Preventative Maintenance for optimal asset performance is tracked and monitored, including ensuring critical parts and components for pumping stations are up to date to determine budget requirements and assist in capital improvement plans.
- Project manage special studies such as condition assessment studies, sewer CCTV and flushing special assignments, and other maintenance reliability assessments for water, wastewater and stormwater assets.

- Provide technical advice and guidance on asset failure modes, reliability maintenance to increase the life expectancy, reduce repair costs and avoid interruption of services.
- Conduct research and analyze specialized systems information in order to prepare technical documentation, reports and statistical analysis, and provide recommendations on trends. This includes actively participate on the Product Approval Committee (PAC) for the research and investigation for evaluating new products for the PAC evaluation and discussion.
- Participate in the capital planning exercise. Provide guidance and technical advice on the implementation / integration of replaced or new systems. Preparing Scopes of Work and technical information for tender documents, contracts and requests for quotations.
- Assist in developing new procedures, process mapping, guidelines, training material for new processes related to Waterworks Operations.
- Liaise with various government agencies, consultants, City's internal departments to ensure the planned Waterworks Operation's small capital projects are executed.
- Maintain positive working relationships with contractors and monitor their services; compare prices and make recommendations to achieve cost savings. Prepare and issue Vendor Performance Evaluation reports and manage in accordance with Regional Purchasing guidelines when necessary.
- Schedule and lead site visits with others to review equipment drawings, investigations and failure analysis as required. Review asset records of existing equipment and provide updated information for newly installed equipment.
- Promote energy savings for all facilities by working collaboratively with City staff; take advantage of the incentive programs to increase the efficiency of operations.
- Act for Waterworks Supervisors and provide back-up support on technical and administrative capacities on as needed basis.
- Other related duties as assigned.

MINIMUM EDUCATION AND EXPERIENCE REQUIRED

- Bachelors Degree in Civil, Chemical, Environmental Engineering or applied science discipline; or Ontario College diploma with CET eligibility from environmental, science, mechanical, electrical, GIS program, eligible to become a member of Professional Engineering of Ontario (PEO).
- A minimum of 5 to 7 years experience in municipal water, wastewater and/or stormwater projects.
- Ministry of the Environment (MECP) Operator-in-Training (OIT) on Water Distribution (WD) and Wastewater Collection (WWC) are considered assets. Over time, this position is expected to apply and obtain the MECP Level II licenses on Water Distribution (WD) and Wastewater Collection (WWC).
- Strong understanding of relevant Federal and Provincial regulations and requirements, including but not limited to the Ontario Building Code, Ontario Water Resources Act, Clean Water Act, Ontario Environmental Protection Act,

Canadian Standard Association standards, Occupational Health and Safety Act, and Technical Standards and Safety Authority Standards.

- Advanced computer skills and familiarity in the relevant software applications (Computerized Maintenance Management software, GIS, Database operation and/or design).
- A Six Sigma Certification is considered an asset.
- Broad knowledge of mechanical, electrical, chemical, and water/wastewater facilities; understand their interaction, life cycle, required maintenance and performance indicators.
- Ability to review and analyze technical mechanical and building drawings and specifications.
- A team player with ability to work with multidisciplinary teams in order to conduct day to day business.
- Possess excellent verbal and written communication, organization and problem solving skills.
- Demonstrate a commitment to continuous improvement and customer service.
- Excellent reasoning, administrative, research and analytical skills.
- Well-developed computer skills and working knowledge of spreadsheets, database and word processing.

CORE BEHAVIOURS

- **Service Excellence:** Meets or exceeds service standards when interacting with customers in the community and in the organization.
- **Change & Innovation:** Responds positively and professionally to change and helps others through change.
- **Teamwork & Relationship Building:** Interacts with others in an inclusive, collaborative and respectful way that creates effective working relationships.
- **Communication:** Communicates in a clear, professional and respectful way; demonstrates active listening.
- **Accountable & Results Oriented:** Demonstrates ethical behaviour and accountability, aligns with City values, and abides by relevant policies and legislation.
- **Management & Leadership:** Demonstrates self-management, professionalism and engagement; leads by example.

The City of Markham is committed to inclusive, accessible and barrier free employment practices and to creating a workplace that reflects and supports the diversity of the community we serve. Please let us know if you require an accommodation and we will work with you to ensure a barrier free hiring process.

The City of Markham has established a mandatory vaccination requirement for staff related to the COVID-19 pandemic. As a result, should you be a successful candidate for a position with the City of Markham you will be required to provide proof of full vaccination upon a conditional offer of employment. Should you require accommodation in accordance with the Human Rights policy with respect to your

vaccine status, you will be required to disclose that at the time of conditional offer so that an accommodation can be developed prior to your start date.