



## Wastewater Optimization Analyst

City of Barrie

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**Posted: Tuesday, April 30, 2024**

**Job Number: PC-24-32**

**Job Type: Permanent Full-time, Union**

**Position Closing Date: Tuesday, May 14, 2024 at 11:59pm**

## Choose Barrie

The City of Barrie is a vibrant, progressive, and growing community with deep connections to our heritage, to nature and to the opportunities surrounding us.

Our community values quality of life; the ability to play year-round with 300 hectares of park space, our beautiful waterfront, our lively downtown core and the nearby hills, wetlands, and forests. We also value connections; to our neighbours and the community, to our road and rail network, and to the opportunity Barrie provides to enjoy life.

Everything Barrie has to offer, from the water we drink to the roads we travel on, has one thing in common - municipal workers. Joining a municipality is one of the most rewarding, engaging, and exciting careers you could choose. It is a career you can take pride in knowing that every day you make a positive impact on an entire community. We are one team, with one goal and we all work together to continue making our community great.

## The Opportunity

The Infrastructure Department is comprised of five Branches, including three Design and Construction Branches, the Wastewater Operations Branch, and the Water Operations Branch. Key responsibilities include the operation and maintenance of the City's environmental infrastructure and systems including water supply, treatment, and distribution; wastewater collection and treatment; and the design and construction of the City's infrastructure including treatment plants, pump stations, roads, sewers, watermains, sidewalks, stormwater management ponds, water towers and reservoirs, etc.

Under the supervision and general direction of the Senior Wastewater Optimization Engineer, the Wastewater Optimization Analyst position conducts technical research, analysis, modeling, testing and evaluation and modification/refinement of existing and new chemical and wastewater processing methods, products, equipment and technologies to improve facility efficacy and effluent quality. This position coordinates pilot programs and studies; assists with procurement of new products; develops and updates Standard Operating Procedures (SOPs) and work protocols; coordinates in-house training on new processes and equipment; and prepares reports, recommendations, memos, presentations, project and business plans. The purpose of the position is to support the safe and efficient operation of the City's wastewater facilities through process improvement and sustained adherence to legislative and regulatory requirements. Overall, the position supports the continuous operation of the wastewater infrastructure, equipment, and systems to ensure the safeguarding of the health and safety of the City of Barrie, the residents, and the surrounding community.

# Our Culture and Qualifications of the Job

**Corporate Culture:** Your workplace values align with our corporate values of ***Strive, Share and Care*** and you want to join us in providing exceptional services and programs to build a prosperous, growing and sustainable community.

## Education (degree/diploma/certifications)

- Four (4) year University Degree in Environmental, Biological or Chemical Engineering, Biological Sciences, Biochemistry, Environmental Sciences or equivalent
- Completion of Wastewater Collection Operator-in-Training (OIT) from the Ontario Ministry of Environment, Conservation and Parks (MECP)
- Completion of Wastewater Treatment Operator-in-Training (OIT) from the Ontario Ministry of Environment, Conservation and Parks (MECP)
- Eligibility for and willingness to obtain advanced levels of MECP Wastewater Operator Certification aligned with City Wastewater infrastructure/plant classifications

Don't meet the credentials as outlined but have years of directly related experience? Please see the City's **Education Equivalency Policy** to determine if you may qualify for equivalency. Further information is available at [www.barrie.ca/government-news/jobs](http://www.barrie.ca/government-news/jobs)

- Position Equivalency Code: D

## Experience

- Five (5) years of experience performing duties related to the above mentioned major responsibilities
- Must have experience in a technical capacity in a municipal wastewater operations environment with an emphasis on plant and process analytics and optimization, including research/evaluation/implementation of new/emerging wastewater technologies and treatment innovations.

## Knowledge/Skill/Ability

- Working knowledge of the following legislation, regulations, or requirements: MECP regulatory and reporting requirements for wastewater plant/infrastructure/operations/licences, MECP Certificates of Approval (Cs of A) and Environmental Compliance Approvals (ECAs)
- Thorough knowledge of the following legislation, regulations, or requirements: Occupational Health and Safety Act (OHSA), Ontario Water Resources Act, Environmental Protection Act, Nutrient Management Act, Lake Simcoe Protection Act, Lake Simcoe Protection Plan, Building Code Act and Fisheries Act
- Working knowledge of the following principles and standards: Wastewater treatment process with an emphasis on activated sludge processes, new/emerging technologies and treatment innovations, and processes/systems modelling, testing and evaluation
- Thorough knowledge of the following principles and standards: Work process mapping and analysis, project management principles/practices, training methods and technical report writing
- Demonstrated ability to:
  - multi-task and anticipate/troubleshoot issues or problems quickly and effectively
  - foster and contribute to a positive, productive and service-excellence work environment
  - deal courteously and effectively with all contacts
- Intermediate skills include: Interpersonal; Judgment; Leadership; Presentation; Project Management; Teamwork; Written Communication
- Advanced skills include: Analytical; Problem Solving; Process Mapping; Report-writing; Research; Technical; Time Management
- Intermediate computer literacy using the following systems and software: technical modelling and wastewater process simulator, e.g. GPS-X; word-processing, spreadsheet, presentation, and database software; the Internet; IMS technology and software, e.g. Megamotion, CityWorks, Hansen etc.; and SCADA systems and database software
- Availability to work evenings, weekends, or holidays

## Conditions of Employment

- Valid Ontario Class “G” Driver’s Licence in good standing with a reliable vehicle for use on corporate business
- Satisfactory Criminal Record Check\*

\*Please note that this is a requirement of the position for any new employees to the City of Barrie in accordance with the **Police Record Check Procedure**. Existing employees who have met this criteria will be exempt from this requirement.

## Other Important Information

**Location:** Wastewater Treatment Facility, 249 Bradford Street, Barrie, ON

**Hours:** The normal hours of work are 40 hours per week in accordance with the Collective Agreement

**Wage:** This position is within the CUPE Local 2380 Bargaining Unit with the following pay level and 2024 pay range:

- Pay Level: Level 9
- Yearly Salary: \$88,753.60 to \$106,267.20
- Hourly Pay Rate: \$42.67 to \$51.09

**Benefits:** This position includes a comprehensive union benefit plan, including but not limited to extended health and dental coverage, life and accident insurance, paid vacation and sick days, short/long term disability plans, OMERS pension plan, discounted rate for City Fitness Memberships and much more.

**How to Apply:** Click the ‘**Apply Now**’ button at the top and/or bottom of the job posting to start the application process. **Please note that emailed applications will not be considered.**

The City of Barrie is an equal opportunity employer, dedicated to creating a workplace culture of inclusiveness and welcomes applications from qualified individuals of diverse backgrounds. We are committed to providing barrier-free and accessible employment practices and we will accommodate the needs of applicants under the Ontario Human Rights Code and the Accessibility for Ontarians with Disabilities Act (AODA) throughout all stages of the recruitment and selection process. If contacted for an employment opportunity, please advise if you require Code-protected accommodation and we will work with you to meet your needs.

The job posting has been designed to indicate the general nature and essential duties and responsibilities of work performed by employees within this position. It may not contain a comprehensive inventory of all duties and responsibilities required of employees to do this job. For full position details, please request a copy of the job description by emailing **[HR.Recruitment@barrie.ca](mailto:HR.Recruitment@barrie.ca)**.

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