

Job Posting: #2021-41

Job Title: Operator-in-Training (OIT), Environmental Services

Department: Environmental Services

Reports To: Foreperson, Environmental Services

Status: 24 Month Contract (includes vacation time and pension)

Hours per Week: 40

Salary: \$53,304 to \$64,792

Application Due Date: Monday, December 6, 2021

Position Summary

This position is responsible to assist the day-to-day general operation and maintenance of the Meaford Wastewater Treatment Plant, pump stations and collection system, the Meaford Water Treatment Plant, Meaford and Leith Water Distribution Systems, and three rural Community Halls in compliance with applicable Ontario Regulations. On-call responsibility on a weekly rotation of 24/7 for response to alarms for the preceding systems for both wastewater and water when appropriately qualified.

Role Specific Duties and Responsibilities

Water Treatment Plant:

1. Monitor and maintain the Supervisory Control and Data Acquisition (SCADA) System to ensure that all data is current and secure.
2. Control and optimize the water treatment and supply processes through visual inspection and by monitoring of the SCADA system and reviewing daily reports for the Water Treatment facility.
3. Identify problems and perform process adjustments to ensure regulated water quality is met.
4. Obtain samples, perform inspections, calibrations and maintenance of water treatment equipment including online turbidity analyzers and coagulant pumps to assist in the water filtration.
5. Maintenance and repairs to the chlorine gas system to provide primary water disinfection. This includes chlorinators with booster pump, pipe and injectors, online chlorine analyzers, chlorine gas scrubber with alarm and de-chlorination pumps.
6. Maintenance, calibration and repair of UV reactors to provide secondary disinfection.
7. Maintenance, repairs or replacement as necessary of centrifugal pumps, valves, actuators and flow meters to provide water from source through the Water Treatment Plant and into the distribution system.

8. Maintenance and repairs to the Backwash and Wastewater System that includes pumps, valves, surge tank and clarifier.
9. Responsible to log all entries for water treatment process changes, planned and un-planned maintenance completed, calibrations made, water sample chain of custody's and personal work log.

Water Distribution Systems:

10. Obtaining raw treated and distribution water samples from various points of the two distribution systems and three Community Halls and visual/meter analysis of pH, temperature, colour, turbidity and chlorine.
11. Prepare samples and ship to the approved laboratory to be analyzed for physical, chemical and biological parameters.
12. Complete annual fire hydrant flushing of both Meaford and Leith distribution systems to ensure water quality, adequate chlorine residual and acceptable turbidity levels are maintained.
13. Maintenance and repairs of in-ground and elevated reservoirs, booster pumping stations re-chlorination station, air relief chambers and pressure regulating valve chambers.
14. Performing repairs and replacement of water mains, fire hydrants and valves under pressure while maintaining positive pressure in system to ensure water quality.
15. Installation and maintenance of flushing stations and new water services, piping and valves. Live tapping of water mains for service laterals.
16. Installation and maintenance of water meters including reading water meters for billing.
17. Delivery of water service disconnection notices to customers for non-payment and further disconnecting delinquent customers.
18. Assist in the use of the vector truck for hydro excavations of pipes and service valves.
19. Operate valve turning trailer with GPS to perform maintenance on waterman valves and catalogue infrastructure for Asset Management.
20. Responsible to log all entries in station log books and maintenance binders.

Wastewater Treatment Plant:

21. Collect representative wastewater plant samples and perform in-house laboratory tests for suspended solids, BOD, settling, phosphorous, temperature, DO, and other sample collection and tests to make process control changes according to Ministry of Environment, Conservation and Parks (MECP) Regulations.

22. Maintain plant records including daily operating logs, plant log book, chemical and lab inventories and data logging (trending & graphs), collection of information to be used to complete necessary reports.
23. Responsible to log all entries for wastewater treatment process changes, planned and un-planned maintenance completed, calibrations made, wastewater sample chain of custody's and personal work log.
24. Start up and shut down of facilities' equipment: filters, pumps, generators, and related equipment.
25. Adhere to MECP Regulations pertaining to the operation of the wastewater treatment facilities with the ability to assess, act promptly and correctly with situations (i.e. adverse samples).
26. Perform routine maintenance such as lubrication, cleaning & painting.
27. Handle chemicals (process & lab) taking care to observe and handle as outlined on Safety Data Sheets (SDS).
28. Determine chemical feed rates, flows and plant efficiencies through recognized standard mathematical calculations.

Wastewater Collection:

29. Assist with duties in the day-to-day operation of the Meaford Wastewater Collection System.
30. Assist with the use of the vector truck to clear sanitary sewer main line blockages with high pressure nozzles and vacuum unit.
31. Clear service blockages with hand rods and power auger that occur inside customers' homes and businesses.
32. CCTV inspections of sanitary service laterals to locate blockages and determine if it is a Municipal or private issue.
33. Maintenance in sanitary sewer maintenance chambers.
34. Repairs and or replacement of sanitary sewer mains and laterals while maintaining flow to reduce the risk of damage to public and private property from surcharge.

Other:

35. Maintain effective and co-operative liaisons regarding the exchange of personal information in a courteous, friendly and efficient manner to promote a high standard of public relations.
36. Perform locating for contractors and home owners of the Municipal watermains, water services, sanitary sewer mains, sanitary sewer laterals and municipally owned street lighting and hydro lines. Provide mapping or create diagrams for infrastructure location, Ontario One-Call.

37. Complete or assist with the Centre Street Landfill Monitoring, sampling and gas monitoring and associated record keeping.
38. Perform inspections of equipment and report issues or malfunctions to the Foreperson or ORO.
39. Complete or assist with minor maintenance of equipment and as directed by supervisor assist operational staff with larger maintenance items and repair tasks.
40. Inspect, maintain, repair and clean buildings, work areas and facilities and report unsafe working conditions.
41. Operate equipment and power/hand tools such as jumping jack, cut off saw, hydraulic saw/jack hammer, grinders, and portable water pumps. Operate or assist with specialized equipment such as valve turning trailer, meter reading unit, gas monitoring device, sewer auger, sewer camera, radio detection pipe locator, magnetic pin locator and leak detection devices.
42. Handle chemicals gas and liquid chlorine, Sodium Hydroxide, Sulfuric Acid, PAX-XL1900 Vita-D-Chlor) taking care to observe and handle as outlined on Safety Data Sheets (SDS)
43. Work in compliance with the Occupational Health and Safety Act, WHMIS, MECP, SDWA, DWQMS and all applicable legislation, regulations, statutes, and municipal policies/procedures/practices and operational guidelines, and perform safe work practices.
44. Participate in the review process of Emergency Response Guidelines, Standard Operating Guidelines and DWQMS Operational Plan.
45. Communicate effectively with fellow Operators, Foreperson, ORO, as well as outside contractors on the technical level expected.
46. Receive deliveries of various types of materials and equipment, ensuring quantity and quality is verified upon receipt.

General Duties and Accountabilities

1. Provides and maintains a high degree of confidentiality and security of information at all times.
2. Perform other duties as may be assigned in accordance with department and corporate objectives.
3. Work in compliance with the *Occupational Health and Safety Act*, and other applicable legislation, department policies/procedures/practices, operational guidelines, and perform safe work practices.

Required Certifications and/or Health and Safety Requirements

1. Eligible to receive Ontario Association of Certified Engineering Technicians & Technologists (OACETT) designation would be preferred.
2. Valid Operator-in-Training Licenses for Water Treatment and Distribution also for Wastewater Treatment and Collection. Higher certification levels are considered an asset.
3. Willingness to obtain MECP System Operator Certificates in: Water Treatment-Class II, Water Distribution-Class II, Wastewater Treatment – Class II and Wastewater Collection Class III preferred or a lesser class.
4. CPR and First Aid Certificates or willingness to obtain. Traffic control, confined space, working at heights certification, Basic gas chlorination.
5. Ability to complete and obtain the Water Meter Installation Certification (800A) through Ministry of Training, Colleges & Universities.

Education, Skills and Experience

1. Engineering Technician/Technologist Diploma, or other related College Diploma preferred.
2. Minimum of 2 years' of related experience responsible for water treatment/distribution and wastewater treatment/collection operations preferred, or an equivalent combination of education and experience.
3. Complete training and attend seminars and courses to satisfy experience requirements as necessary to maintain Water Treatment, Water Distribution, and Wastewater Treatment Plant and Wastewater Collection MECP Operator Licenses. Attend courses as authorized by ORO.
4. Ability to prepare for and successfully pass MECP Certification exams for license upgrades and to attend seminars, workshops, conferences and courses as required.
5. Thorough working knowledge of Water Treatment and Distribution operations; health and safety, WHMIS, SCBA, relevant Legislation/Statutes/Acts/Regulations; equipment operation and maintenance;
6. Microsoft Windows and Office applications; SCADA computer programs, and office equipment.
7. Excellent communication (written, oral and interpersonal), analytical, problem solving, organizational, public relations, report-writing, time management, team building skills.
8. Possess a Valid Class 'G' Driver's Licence in good standing.

Physical Demands and Working Conditions

- Physical demand requires computer work concentration and visual observations for MECP compliance and personal safety on job sites. Physical dexterity and effort required for walking, shoveling, bending and lifting as required.

- Working conditions vary between a standard office environment to conducting onsite inspections, working at heights and in trenches, exposure to inclement weather conditions (cold and heat), mud, dirt, noise; and exposure to public criticism. Occasionally works in confined spaces and open trenches.
- Occasionally works in high stress situations. i.e.: loss of services or damage to property due to watermain breaks, frozen pipes, water service disconnects for nonpayment and sewer backups.
- Normal hours of work are 40 hours per week. Availability or provision for 'on-call' response which requires carrying an on-call phone (24/7 operation) as scheduled, and responding to after-hours alarms involved with the operating system on a rotating, shared basis as well as other emergency calls.
- When not on-call, be available for overtime hours, when necessary. The incumbent must reside in a location not more than 30 minutes driving distance from the Meaford Water & Wastewater Treatment Plants, in order to be able to respond to alarms and other emergency situations.

Contacts and Interactions

- Communicates and/or liaises with staff, Ministry of Health, Ministry of the Environment, Ministry of Labour, laboratory suppliers, contractors and trades, and the general public and other regulatory bodies.

Applicant Information

Interested qualified applicants are invited to forward their cover letter and resume directly to the Municipality quoting Job #2021-41 by Monday, December 6, 2021 to:

jobs@meaford.ca

Attention: Human Resources

The Municipality of Meaford is committed to providing a barrier-free workplace. If accommodation is required during the selection or interview process, it will be available upon request.

We thank all applicants for their interest, however only those selected for an interview will be contacted.

Personal Information is collected under the authority of the Municipal Act for the purpose of candidate selection, and all information will be stored and used in accordance with the Municipal Freedom of Information and Protection of Privacy Act. For further information about this data collection, please contact jobs@meaford.ca.