

DEPARTMENT: NORTH TONAWANDA WASTEWATER TREATMENT PLANT
CLASSIFICATION: COMPETITIVE
APPROVED: APRIL 13, 2023

LABORATORY TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for the physical, chemical and bacteriological examination of raw and treated wastewater and sludge. The work is performed in accordance with prescribed procedures requiring a high degree of accuracy. The work is performed under the direct supervision of the Sanitary Chemist. Does related work as required.

TYPICAL WORK ACTIVITIES:

1. Performs analysis of wastewater and materials such as ferric chloride for conformance to specifications;
2. Collects samples for laboratory analysis;
3. Performs physical, chemical and bacteriological examination of raw water/sludge and treated wastewater;
4. Records and tabulates the results of tests and data for use by supervisors;
5. Maintains an inventory of laboratory supplies, media, chemicals and equipment;
6. Calibrates, operates and maintains laboratory equipment and automatic sampling equipment;
7. Confers with supervisors regarding on-going operations and problems encountered;
8. Maintains laboratory equipment and chemical storage facilities in a safe, clean and orderly fashion;
9. Performs analysis of outside waste (haulers) for treatment system compatibility;
10. Participates in training of laboratory personnel including blind proficiency testing and ethics;
11. May assist in preparing budget requests;
12. Attends laboratory related courses and seminars;
13. Performs Industrial Pretreatment Program related sampling and analysis as required.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of modern laboratory techniques, equipment, terminology and safety precautions used in the analysis of wastewater and sludge; good knowledge of the principles of environmental health as they relate to wastewater treatment; skill in the operation and care of laboratory equipment and apparatus and use and storage of chemicals; ability to understand and carry out technical oral and written instructions; ability to maintain technical records and reports; thoroughness; accuracy; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS:

Candidates must meet all of the following requirements:

1. Graduation with a Bachelor's degree in chemical, environmental, physical or biological sciences; **AND**
2. Completion of at least twelve (12) semester hours of chemistry; **AND**
3. Completion of at least nine (9) semester hours of biology.

NOTE: Degrees and/or credit hours must have been awarded by a college or university accredited by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education/U.S. Secretary of Education.