

POLLUTION CONTROL LAB TECHNICIAN

Code No.: 4-14-095
(80 Hour: 4-14-173)
COMPETITIVE

DISTINGUISHING FEATURES OF THE CLASS: This is a technical position in a Pollution Control Laboratory, involving responsibility for the collection and analysis of wastewater samples at various process points in the pollution control system for their chemical content, and the interpretation of data for operational changes. The employee works under the direction of the Pollution Control Chemist. Supervision is exercised over Laboratory Assistants operating laboratory equipment and conducting tests. Does related work as required.

TYPICAL WORK ACTIVITIES: (All need not be performed in a given position. Other related activities may be performed although not listed.)

Performs chemical analysis on water, wastewater and solid samples using "Methods of Chemical Analysis of Water and Wastes" outlined in EPA Manual, including automated wet methods for inorganic constituents such as phosphorus and nitrogen, atomic absorption spectrophotometry for metals analysis, and gas chromatography for organics and pesticides;

Performs routine treatment plant monitoring for suspended solids, Ph, coliform, and BOD;

Relays analysis results to the operations staff;

Assists the Chemist in special studies and tests for the improvement of water pollution control processes;

Maintains a record keeping system for analysis performed, and inventory of chemicals and supplies;

Prepares statistics in conjunction with ongoing quality control program for laboratory and process control;

Conducts proper sample collection and preservation methods for water and wastes;

Assists the Chemist in evaluation of new treatment schemes, chemical products and equipment to aid in performance of treatment plant;

Reads and interprets new methodologies as they become available;

Assumes the duties of the Chemist in his absence.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL

CHARACTERISTICS: Good knowledge of modern principles, methods and techniques for the analysis of water and wastes including automated procedures for

inorganic constituents such as phosphorus and nitrogen, atomic absorption for metals analysis, and gas chromatography for organics and pesticides; good knowledge of proper sample collection and sample preservation techniques; good knowledge of sewage treatment plant operation; good knowledge of measures needed to improve the quality of sewage treatment; ability to recognize deficiencies in sewage samples and interpret data; skill in general laboratory techniques; ability to read and interpret complex written material; ability to establish and maintain good professional relationships; good judgment; initiative; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Graduation from high school or possession of a high school equivalency diploma, and EITHER:

- (A) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Chemistry which is to include thirty-five (35) semester credit hours of Chemistry; OR,
- (B) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Natural Sciences which is to include eighteen (18) semester credit hours of Chemistry plus one (1) year paid laboratory experience in analytical/environmental chemistry; OR,
- (C) Graduation from a regionally accredited or New York State registered college or university with an Associate's degree with a natural science major plus three (3) years experience as described in (B) above; OR,
- (D) Five (5) years experience as described in (B) above; OR,
- (E) An equivalent combination of training and experience as defined by the limits of (A), (B), (C) and (D).

NOTE: Acceptable degrees in the natural sciences include, but are not restricted to, the following: Biology, Botany, Chemistry, Earth Science, Physics and Zoology.

Candidates who meet the minimum qualifications under options (A) and (B) must submit a student copy of transcript at the time of application.

SPECIAL REQUIREMENT FOR APPOINTMENT IN SCHOOL DISTRICTS AND BOCES:

Per Chapter 180 of the Laws of 2000, and by Regulations of the Commissioner of Education, to be employed in a position designated by a school district or BOCES as involving direct contact with students, a clearance for employment from the State Education Department is required.

REVISED: July 17, 1980

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