

## SENIOR LABORATORY TECHNICIAN (I-ENVIRONMENTAL FACILITIES)

DISTINGUISHING FEATURES OF THE CLASS: Under the supervision of a higher level technician, incumbents of this class perform laboratory tests and analyses in the Department of Environmental Facilities. An incumbent may be assigned to any of the departments Water of Wastewater Treatment Plants. Supervision is not a responsibility of the position. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Performs the standardized wet chemistry analyses on water, wastewater, and estuarine samples such as, biochemical oxygen demand, chemical oxygen demand, ammonia nitrogen, detergents, nutrients, solids, etc.;

Prepares samples for analyses, using standardized methods or under the direction of a chemist, including measuring, addition of required preservatives and reagents and prescribed treatment (e.g.: filtering, centrifuging, digestion, dilutions, etc.);

Performs environmental bacteriology examinations as required;

Performs prescribed procedures of quality control such as: Daily log of pH meter standardizations, refrigerator and incubator temperatures, specific conductivities of distilled water and analytical balance weighings for precision and accuracy;

Standardizations of conductivity bridge, dissolved-oxygen meter, fluoride meter, etc., standard curves; spiked and duplicate samples;

Prepares media, solutions, reagents and equipment to insure proper availability of work materials;

Maintains assigned work areas, instruments and equipment in a clean and safe manner and at operational readiness;

Records results and makes reports of findings, insuring adherence to quality control standards;

Maintains daily and monthly tabulation of number, type and origin of specimens;

May conduct limited research of procedures under supervision;

Insures that laboratory procedure manuals or other procedure guides are available in the immediate bench area and contain complete descriptions and instructions for preparing media, solutions and glassware;

Participates in the New York State Department of Health proficiency testing programs in the assigned area of discipline.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Good knowledge of standard laboratory procedures, techniques and safety precautions; good knowledge of the use and limitations of laboratory equipment; familiarity with various fields of specialty in laboratory work such as chemistry, histology, microbiology, diagnostic immunology, hematology; skill in specimen collecting; ability to adapt techniques and procedures for special requirements; ability to plan and schedule work phases; alertness; initiative; judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: High school or equivalency diploma and either: (a) a Bachelor's Degree\* in chemistry or a biological science; or (b) a Bachelor's Degree\* and one year of laboratory experience in an approved hospital, medical or public health laboratory; or (c) satisfactory completion of 60 credits\* at a recognized college or university which included course work in a chemical, physical or biological science and two years of experience as stated in (b); or (d) three years of experience as stated in (b); or (e) a satisfactory equivalent combination of the foregoing training and experience.

SUBSTITUTION: Two years of on the job training in the position of Lab Assistant or Junior Lab Tech in Westchester County service may be substituted for the above required experience.

\*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.