

SENIOR LABORATORY TECHNICIAN (II-ENVIRONMENTAL SCIENCE)

DISTINGUISHING FEATURES OF THE CLASS: Under the supervision of professional laboratory personnel, an incumbent in this position performs advanced chemical, physical and bacteriological tests of environmental samples and other products which involve the accurate completion of a variety of standardized tests and procedures in the discipline of Environmental Science. Responsibility includes preparing media, solutions and standards, as well as maintaining equipment in accordance with established procedures. Incumbents are expected to assist higher level laboratory personnel in complex analyses. Work is performed in coordination with and responsive to other areas of the Department of Labs and Research. The incumbent must maintain a satisfactory rating of performance by the New York State Department of Health for those procedures for which approval has been granted to the laboratory. Supervision is not normally a responsibility of this class; however, incumbents may train, instruct and supervise technical and subordinate laboratory personnel on a project or temporary basis as assigned. Work is subject to shift assignment. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Receives samples and updates the Computerized Laboratory Information Management System by logging all necessary data;

Stores and secures all samples and forms until released to analyst;

Instructs sample collectors in sample collection procedures, preservatives and holding times;

Performs chemical and/or bacteriological analyses on air, water, waste water, leachates, soil, and other substances as required;

Performs various chemical and biochemical examinations;

Prepares buffers, reagents and standards utilizing quality control procedures;

Performs digestions, separations, extractions and purification for sample preparation;

Maintains upkeep of laboratory instruments and equipment, before and after usage, as well as the general cleanliness and safety conditions in the laboratory;

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

Participates in the New York State Department of Health Proficiency Testing Programs in the assigned area of discipline;

Works overtime, holidays and weekends when required;

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments;

May be required to make telephone notification of results to water companies, government agencies and private individuals, all of which are logged, dated and initialed;

EXAMPLES OF WORK: (Illustrative Only) (Cont'd.)

May supervise and train subordinate employees;

May conduct research of procedures under supervision;

May perform other incidental tasks, as needed.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Good knowledge of environmental chemistry and environmental bacteriology laboratory techniques, procedures, and safety precautions; knowledge of the principles and practices of environmental science; knowledge of environmental laboratory terminology; skill in the use, operation, and care of standard laboratory instruments and equipment; ability to train and supervise the work of others; ability to perform examinations using a microscope; ability to understand, follow and convey technical instruction; ability to plan and schedule work phases; ability to read, write, speak, understand, and communicate in English sufficiently to perform the essential duties of the position; ability to use computer applications such as spreadsheets, word processing, e-mail and database software; alertness; initiative; integrity; accuracy; thoroughness; dependability; 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 one of the chemical, physical, biological or environmental sciences and one year of laboratory experience and/or training in a recognized laboratory performing technical laboratory procedures in the field of environmental science; or (b) a Bachelor's Degree* which included at least twelve credits in one of the chemical, physical, biological or environmental sciences and two years of experience as stated in (a); or (c) six years experience as stated in (a).

SUBSTITUTION: Satisfactory completion of 30 credits towards a Master's Degree* in Environmental Science or one of the sciences listed above may be substituted on a year for year basis for up to two years of the experience required above. Satisfactory completion of 30 credits* towards a Bachelor's Degree which included at least twelve credits in one of the chemical or biological sciences may be substituted on a year for year basis for up to four years of the experience required in (c).

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