

SENIOR LABORATORY TECHNICIAN (I-ENVIRONMENTAL SCIENCE)

DISTINGUISHING FEATURES OF THE CLASS: Under the direct supervision of professional laboratory personnel, an incumbent in this position performs traditional 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. Prepares media, solutions, standards, and samples for analysis by others, as well as maintains equipment in accordance with established procedures. It is intended that the work of this class including the performance of tests, adherence to established policies, practices and procedures be reviewed by professional laboratory personnel. Although supervision is not normally a responsibility of this class, partial supervision may be exercised over other technical and subordinate laboratory personnel on a project or temporary basis as assigned. 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. Works overtime, holidays and weekends when required. . Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Performs various physical, chemical, and bacteriological examinations as required;

Performs sample accession on samples delivered to the laboratory and updates the Laboratory Information Management System (LIMS) by logging all necessary data;

Establishes and maintains Chain-of-Custody (C-O-C) on delivered samples, stores and secures all samples and forms until released to analyst;

Instructs client sample collectors in Laboratory Protocols for sample collection, sample preservation, and analysis holding times;

Performs prescribed procedures of quality control such as: daily log of pH meter standardizations, refrigerator and incubator temperatures, specific conductivities of water samples, and analytical balance weights for precision and accuracy, standardizations of conductivity bridge, dissolved-oxygen meter, standardization of reagents, dyes and solutions, standard curves, matrix spiked and matrix duplicate samples, positive and negative controls, etc.;

Cleans and prepares glassware for organic extractions, cleans and preserves sample bottles, solutions, reagents and equipment ensuring proper availability of work materials;

Maintains assigned work areas, instrumentation 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;

Participate with a team of analysts on a 24/7/365 rotational staff weekend and holiday work schedule. The incumbent in this position would performs laboratory tests for bacteriological organisms on samples submitted by WCDEF.

EXAMPLES OF WORK: (Illustrative Only) (Continued)

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

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

May perform other incidental tasks, as needed.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Good knowledge of environmental chemistry and bacteriology laboratory procedures, techniques and safety precautions; knowledge of the principles and practices of environmental science; knowledge of environmental laboratory terminology; skill in use, operation and care of laboratory equipment; ability to perform assigned tasks according to prescribed procedures; ability to make accurate observations and records of test results; ability to adapt techniques and procedures to special requirements and situations; ability to plan and schedule work phases; ability to follow detailed oral and written instructions; 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; thoroughness; accuracy; integrity; dependability; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: A High school or equivalency diploma and either: (a) Satisfactory completion of 60 credits* of college level course work which included at least eight (8) credits in one of the chemical, biological, physical, or environmental sciences; or (b) three (3) years of laboratory experience and/or training in a recognized laboratory performing technical laboratory procedures in the field of environmental science.

*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.

NOTE: Unless otherwise noted, only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.