

SENIOR ENGINEER (PUBLIC HEALTH)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, this class functions as a fully competent Professional Engineer in public health or environmental engineering or in the more specialized phases of public health and environmental engineering and public health programs. The incumbent shall apply engineering principles for the detection, evaluation, control and management of those factors in the environment which influence public health. The incumbent independently performs assignments with instructions as to general results expected, plans and performs work requiring judgment in the evaluation, selection, adaptation and modification of standard techniques, procedures and criteria. Senior Engineers give direction to and review the daily work of engineers, sanitarians and others who assist on specific assignments. Incumbents in this title will be required to possess NYS Professional Engineering licensure upon successful completion of their probationary period. This level differs from the NYS licensed Associate Engineer in that the Associate is responsible for the administrative supervision of a unit. This level differs from the Assistant Engineer in the greater responsibility and complexity of assignments, along with the responsibility for training of lower level engineers within the department. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Oversees enforcement of provisions of Public Health Law and State Sanitary Code or Environmental Conservation Law, rules and regulations relating to air pollution, public water supplies, solid waste, sewerage, and sewerage treatment and disposal, operation of water and sewage treatment plants, swimming pools and bathing beaches, stream pollution, realty subdivisions, qualifications of water and sewage treatment plant operators, public health nuisances and related matters;

Consults and advises concerning the activities carried on in relation to promotion of improved housing and plumbing to meet public health standards;

Advises relative to problems of operation of refuse collection and disposal and solid waste management facilities;

Leads public health engineering investigations of outbreaks of disease;

Provides technical training, direction and oversight for lower level engineers and sanitarians within the unit;

Formulates and conducts or directs programs for training of water and wastewater treatment plant operators, environmental health personnel, and other classes of operating personnel;

Represents the Department of Health on all matters and problems related to environmental health;

Maintains relationships and cooperates with state and federal agencies whose work or policies affect the public health program;

EXAMPLES OF WORK: (Continued)

Prepares technical reports including recommendations;

Assists in developing public health and environmental engineering and environmental health policies;

Recommends to superiors cases where an administrative hearing or legal action may be necessary in order to obtain compliance, and may prepare the documents necessary for the hearing;

Re-inspects facilities and/or areas where violations were noted, recorded, and cited, in order to ascertain if compliance has been achieved;

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:

Thorough knowledge of the basic principles, practices, techniques and administration of public health engineering and environmental health programs as related to air pollution, water supplies and purification, sewerage, wastewater treatment and disposal, solid waste, stream pollution, realty subdivisions, swimming pools, bathing beaches, public health nuisances and general sanitation; good knowledge of provisions of Public Health Law and State Sanitary Code and Environmental Conservation Law, rules and regulations related to the above subjects; skill in public health and environmental engineering techniques and practices; ability to plan, develop and administer public health and environmental engineering and environmental health programs and to protect and integrate these into the departmental program; ability to prepare technical reports and correspondence; ability to deal satisfactorily with public and other officials; ability to develop and maintain good public relations; 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; initiative and resourcefulness in solving difficult public health and environmental engineering problems; sound professional judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: A Bachelor's Degree* in Engineering followed by four years of engineering experience, three of which must have been in a position where the primary function of the position was in public health or sanitary engineering; and possess either (a) current Professional Engineering licensure from a state or political subdivision of the United States; or (b) a NYS Board for Engineering letter of eligibility to sit for the Principles and Practice of Engineering (PE) examination.

SUBSTITUTION: A Master's Degree* in Sanitary, Environmental, Chemical, Public Health or Civil Engineering with a sanitary option, or closely related field may be substituted for one year of the required general engineering experience. There is no substitute for the specialized experience.

SPECIAL REQUIREMENTS: 1. Incumbents must possess NYS Professional Engineering license and registration at time of permanent appointment and maintain same while in the title. 2. Possession of a valid license to operate a motor vehicle in the State of New York will be required at time of appointment and maintain same while in the title.

*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 Department of Education as a post-secondary, degree-granting institution.

NOTE: Only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.

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Job Group: XIII