

SENIOR ENGINEER (WATER QUALITY)

DISTINGUISHING FEATURES OF THE CLASS: Under the supervision of the Assistant Commissioner of Health for Environmental Quality, performs professional public health and environmental engineering work involving water quality management and environmental quality review. An incumbent of this position is responsible for applying professional engineering methods and techniques to county-wide programs of water and environmental quality management and to the development and implementation of population control measures. The goals of the activities must comply with standards, rules and regulations of Westchester County, the New York State Departments of Environmental Conservation and Health, the United States Environmental Protection Agency and applicable law, the Westchester County 208 Wastewater Management Plan and the State Environmental Quality Review Act. On a project basis, a Senior Engineer assigns work and reviews the daily work of Engineers, technicians and others, acting in a consultative and coordinating capacity. This level differs from the Associate Engineer in that the Associate is responsible for the administration of a unit. It differs from the Assistant Engineer in the greater responsibility and in the requirement of a license to practice as a Professional Engineer. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Develops criteria, using engineering technology, for adoption by higher authority, for the evaluation and approval of pollution control measures necessary to implement the 208 Plan and to meet County, State, and Federal environmental standards;

Reviews and evaluates projects related to water quality management for conformance with the 208 Wastewater Management Plan and for compliance with the State Environmental Quality Review Act;

Assists in and coordinates the formulation of practical control techniques and implementation mechanisms for abating both point and non-point sources; including work with consultant;

Assists in the development of programs in water quality control to comply with the 208 Plan Mandate to institute best management practices and cost effective means for controlling sources of pollution;

Provides liaison for interchange among various departments regarding technical aspects of water quality management with orientation towards resolution of potential internal technical conflicts;

Provides coordination of activities relating to water quality management involving inter-departmental projects;

Coordinates the annual update and revision of the 208 Plan;

Assists in the determination of cost effective strategies for supplementing the 208 Plan with water quality management investigations, monitoring and surveillance towards fulfilling the continuing planning process and the 208 Plan;

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

Coordinates with adjacent 208 Planning regions to obtain general consistency in water quality management policy, to develop close working relationships with Federal and State agencies that may provide funding and/or in-kind services to assist the County in carrying out the various strategies of the continuing planning process of the 208 Plan;

Applies professional engineering techniques to coordination of county-wide water quality management programs;

Recommends public hearings and assists in the organization of the County's presentation at public hearings; provides testimony.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Comprehensive knowledge of the principles, practices, and techniques of public health and environmental engineering as they relate to water supply and purification, sewage treatment and sewage disposal, water pollution and general environmental quality problems; familiarity with provisions of the New York State Environmental Conservation Law, the New York State Public Health Law and the Westchester County Sanitary Code and the rules and regulations of these agencies; familiarity with the 208 Wastewater Management Plan and the Federal Water Pollution Control Act; ability to prepare technical engineering reports and to present them in a manner that is understandable to non-technical administrators; ability to assist in development of projects and to carry them out to a logical conclusion; ability to deal effectively with both professional, lay and administrative personnel to develop and maintain good public relations; initiative and resourcefulness in solving environmental engineering problems; good judgment; tact; physical condition commensurate with the requirements of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: A Bachelor's Degree* in Engineering and either (a) a Master's Degree* in Environmental Engineering, and four years experience in sanitary, environmental or public health engineering with emphasis on water quality management; or (b) five years experience as stated in (a); or (c) a satisfactory equivalent combination of the foregoing training and experience.

SPECIAL REQUIREMENTS: 1. Possession of a license to practice Professional Engineering in the State of New York. 2. Possession of a valid New York State Motor Vehicle operator's license. 3. Possession of certification as a Senior Public Health Engineer under provisions of Part II, New York State Sanitary Code or equivalent certification under New York State Environmental Conservation rules and regulations.

*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.

West. Co.
J.C.: Competitive
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Job Class Code: C1512
Job Group: XIII