

JUNIOR ENGINEER (PUBLIC HEALTH)

DISTINGUISHING FEATURES OF THE CLASS: Under supervision, incumbents of this class perform entry level engineering work by carrying out complex technical details, making inspections and preparing simple designs. The incumbent applies engineering principles for the detection, evaluation, control and management of those factors in the environment which influence public health. Incumbents may be assigned regularly to any type of engineering work in the implementation of Health Department programs including inspection of the water supply, sewers, sewer treatment and disposal, swimming pools, air pollution, etc., either as a regular assignment or as a training experience. The difference between the Junior and Assistant Engineer is in the length of experience, and in the judgment and independent action required. The incumbent might work independently on the less complex and routine projects and under direct supervision on the more difficult tasks. As the employee's skill and knowledge increases, the employee receives less direction. Each level engineer in this title series takes part in reviewing details, plans, specifications and in field inspections. Advancement depends on attainment of higher-level skills and on the regular assignment of jobs requiring those skills. Supervision is not a responsibility; however guidance and direction may be given to a small number of non-professional employees. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Reviews simple designs, reports and plans;

Makes measurements and obtains design data;

Obtains data for evaluation of environmental factors;

Inspects minor construction, maintenance work and operation on water supplies, sewage disposal system, wastewater treatment plants, air pollution sources, swimming pools, beaches and other public health and environmental facilities;

Prepares inspection reports;

Reviews operation reports;

Performs routine investigations;

Collects samples of air, water, sewage and other materials;

Maintains and establishes sampling stations;

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.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of surveying; good knowledge of the principles of public health and environmental engineering; good knowledge of the methods and equipment used in construction; familiarity with the design and analysis of structures; ability to read, write, speak, understand and communicate in English sufficiently to perform the essential tasks of the position; ability to interpret specifications and contract essentials; ability to do mathematical computations applied to engineering problems; ability to get along well with others; ability to effectively use computer applications or other automated systems such as spreadsheets, word processing, e-mail and database software; accuracy; reliability; resourcefulness; good judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Either (a) Bachelor's Degree* in Engineering; or (b) a license to practice as a professional engineer in New York State.

SPECIAL REQUIREMENTS: Possession of a valid license to operate a motor vehicle in New York State.

*SPECIAL NOTE: Education beyond the secondary 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.