

PRINCIPAL ENGINEERING TECHNICIAN (ENVIRONMENTAL FACILITIES)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, performs responsible, non-professional engineering work related to planning, designing, instruction, maintenance and inspection of Westchester County environmental projects. An incumbent reviews proposals, plans, etc. to ensure compliance with engineering principles, County standards and needs and contract specifications. Supervision may be exercised over a number of technical and maintenance employees. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Prepares engineering plans and specifications using computer assisted design (CAD), and reviews contracts for a variety of environmental facilities engineering projects, including civil, mechanical and electrical, to ensure that plans meet standards and needs;

Plans and coordinates various phases of assigned projects, making appropriate adjustments to ensure that project remains on schedule;

Inspects projects to ensure that material and workmanship adhere to contract specifications and plans, noting discrepancies and informing appropriate party;

Inspect project area to determine scope, prepare sketch and budget estimate;

Prepares cost estimates on materials, supplies and equipment;

Recommends adjustments to plans based on field conditions and recommends approval or disapproval of extra work and field changes;

Inspect projects, consults with contractors, prepares progress reports and recommends payments based on proportion of work completed, materials used, etc.;

Operates, maintains and repairs a water distribution and treatment system to ensure that treated water meets water quality standards prescribed by the New York Sanitary Codes;

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 environmental construction and operations practices and theory; good knowledge of design, operation and maintenance of environmental projects of small to moderate size; good knowledge of the modern methods, techniques and equipment used in environmental construction; good knowledge of environmental construction and operation and maintenance cost estimating; good knowledge of computer assisted design (CAD); ability to get along well with others and interact effectively with contractors; ability to effectively use computer applications such as spreadsheets, word processing,

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: (con't)

calendar, e-mail and database software; ability to read, write, speak, understand, and communicate in English sufficiently to perform the essential duties of the position; ability to follow complex oral and written instructions; accuracy; reliability; resourcefulness; good judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: High school or equivalency diploma and either: (a) completion of a two year course in civil or construction technology or Environmental or Sanitary Engineering at a recognized post high school, trade or technical school, and four years experience in environmental construction or design; or (b) six years of experience in civil technology, four of which must have been related to environmental construction or design; or (b) (c) a satisfactory equivalent combination of the foregoing training and experience.

*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.

SUBSTITUTIONS: College education in a related field may be substituted at the rate of 30 credit hours* for one year of experience up to a maximum of four years.

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

SPECIAL REQUIREMENTS: 1) Depending on work assignment, must meet standards of OSHA regulation 1910.134 Respiratory Protection, and will be required to meet Federal, State and local standards with respect to health and safety; 2) If assigned to a water distribution and treatment system, must possess a Grade D, or higher certificate, issued under the provisions of the New York State Sanitary Code; 3) Must possess a valid driver's license to operate a motor vehicle in New York State.

West. Co.
J. C.: Competitive
DBB7

Job Class Code: C0797
Job Group: XI