

SENIOR CIVIL ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: This is high-level, responsible, professional engineering work involving the exercise of independent judgment based on knowledge of both theory and practice. The incumbent performs difficult engineering work at the professional level in the design, investigation, maintenance, construction, and operation of engineering projects primarily involving highways, bridges, hydraulic structures, and Solid Waste Management. The work involves the supervision of varying numbers of professional and nonprofessional employees by laying out tasks, giving instructions as to required procedures, and making such checks on completion of works as are necessary to ensure proper performance. Major projects, techniques or problems are discussed with the Commissioner/Senior Civil Engineer II before taking action. Does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only) Originates, plans, designs and carries out highway and bridge construction projects; Assigns and supervises field and office work of subordinates; Reviews planned alterations and construction projects for materials and procedures; Oversees the preparation of estimates and construction plans; Conducts long range studies to determine future highway and bridge needs; Conducts investigations and studies on culvert and bridge waterways; Conducts economic studies for proposed highway improvements; Prepares cost estimates for work to be done by the department or contracted out; Assists in the maintenance of engineering office records; Prepares reports on activities.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of the principles and practices of civil engineering and the sources of engineering information; Thorough knowledge of modern methods and techniques as applied to highway and bridge construction; Ability to organize, plan and lay out working details of engineering work in writing technical reports of such work; Initiative and resourcefulness in the solution of engineering problems; Ability to establish and maintain an effective working relationship with the public; Ability to plan and supervise the work of others; Tact; Mental alertness; Industriousness; Physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Graduation from high school or possession of a high school equivalency diploma and either:

- A. (1) Graduation from a college or university recognized by the University of the State of New York with a Bachelor's degree in engineering and (2) four years of experience in civil engineering work; OR
- B. (1) Graduation from a two-year college with an Associate's degree in engineering technology recognized by the University of the State of New York and (2) six years of experience in civil engineering work; OR
- C. Eight years of experience in civil engineering work demonstrating continued improvement in being responsible for civil engineering designs; OR
- D. An equivalent combination of training and experience as indicated in (A), (B) and (C).

NOTE:

Eligibility for license to practice as a professional engineer in New York State may substitute for two (2) years of experience in civil engineering work.

SPECIAL REQUIREMENTS FOR THE ACCEPTANCE OF APPLICATION:

Possession of an appropriate level New York State Driver's license at the time of appointment and maintained during employment.

Revised 6/3/96, 8/31/00; 10/20/10; 5/16/18, 12/29/22