

## SENIOR CIVIL ENGINEER

**GENERAL STATEMENT OF DUTIES:** Performs responsible engineering and surveying work in connection with the construction and maintenance of the county highway system; does related engineering work as required.

**DISTINGUISHING FEATURES OF THE CLASS:** This is advanced engineering and/or surveying work requiring considerable experience in land surveying, design, construction and maintenance of public works projects. The Senior Civil Engineer supervises the engineering staff as well as work crews engaged in surveying, construction and maintenance projects. The work is performed under the general supervision of the County Highway Superintendent with considerable latitude permitted for the exercise of independent judgment in carrying out assigned tasks.

**EXAMPLES OF WORK:** (Illustrative only)

- Assists with determining county highway and bridge construction and maintenance needs and plans, designs and carries out necessary construction projects;
- Assigns duties to technical staff and oversees office and field work;
- Assists with preparation of plans, specifications and estimates for contract construction projects;
- Conducts short and long-range studies to determine future construction needs;
- Oversees highway and bridge reconstruction projects;
- Assists with preparation of technical engineering reports;
- Supervises the maintenance of engineering office records;
- Operates a personal computer and related peripheral equipment for technical applications such as computer aided drafting design, civil engineering, GIS, spreadsheets, and database applications;
- Conducts field investigations and performs surveys on highways and bridges;
- Assist in preparation of maps and descriptions necessary for right-of-way acquisition;
- Performs other related duties as assigned.

**REQUIRED KNOWLEDGES, SKILLS AND ABILITIES:** Thorough knowledge of the principles and practices of civil engineering and land surveying; thorough knowledge of modern methods of highway and bridge construction; ability to organize, plan and layout engineering projects; ability to conduct engineering research and to write technical reports; ability to plan, assign and supervise the work of others; initiative; thoroughness; physical condition suitable to the demands of the position.

**ACCEPTABLE TRAINING AND EXPERIENCE:**

- Promotion:** One year of permanent experience as an Assistant Civil Engineer;  
Or Two years of permanent experience as an Associate Civil Engineer;  
Or Three years of permanent experience as a Junior Civil Engineer.

**Open-competitive:**

- Either** (A) Graduation from a regionally accredited or New York State registered college with a bachelor's degree in civil engineering and three years of engineering and/or professional surveying experience;
- Or** (B) Graduation from a regionally accredited or New York State registered college with a bachelor's degree in civil engineering technology and five years of engineering and/or surveying experience;
- Or** (C) Graduation from high school and nine years of engineering experience.

**NOTE:** Candidates are required to possess a valid New York State Driver's license or suitably demonstrate an ability to meet the transportation requirements of the position at the time of appointment.