

JUNIOR CIVIL ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: This is technical civil engineering work requiring limited experience or practice, but demanding ability to apply principles of physics, mathematics, mechanics and materials to engineering problems. A Junior Civil Engineer may be in charge of projects in the field, or of the design of projects in the office, or may be engaged in some special phase of engineering investigation in field or office. Assignments are received from a supervisor defining the scope of the work to be performed, although the employee uses independent judgment on routine problems. A senior level engineer gives advice and instruction on the more difficult technical problems. Supervision may be exercised over laborers in the office or in the field. Does related work as required.

TYPICAL WORK ACTIVITIES (illustrative only):

Assists in the preparation of plans, specifications and design of proposed engineering projects;
Makes field investigations;
Supervises field parties engaged in making surveys for line and grade for street paving and construction, sewer and water extensions and other standard improvement projects;
Assists in design of roads and bridges;
Assists in the preparation of cost estimates, time schedules, material specifications for street projects, water and sewer system maintenance and extensions, bridges, buildings, and other structures;
May design and prepare plans for additions to sanitary and storm sewer systems;
Performs investigations, layouts, studies and reports on construction projects;
Drafts topographical, detained and cross-section maps and charts.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of the principles of Civil Engineering, mathematics, and properties of materials as applied to engineering; good knowledge of engineering construction, survey and inspection practices; skill in the use of drafting and surveying instruments; ability to use mathematical tables; ability to read and interpret engineering drawings and specifications; ability to plan and organize the work of technical subordinates; ability to prepare clear and accurate technical reports; basic knowledge of computer applications; ability to get along well with others; ability to follow general instructions; mental alertness; accuracy; initiative; physical condition commensurate with the demands of the job.

MINIMUM QUALIFICATIONS:

Promotional:

City of Jamestown - Candidates must be currently serving and have served permanently in the competitive class as a Civil Engineering Technician or Principal Engineering Aide for one (1) year on a continuously basis immediately preceding the date of appointment or the date of the written test.

Open Competitive: Graduation from high school or possession of a high school equivalency diploma and Graduation from a regionally accredited, or New York State registered, four-year college or university with a Bachelor's Degree in Civil Engineering or Civil Engineering Technology.

Pay Range: \$53,625 - \$80,710.50

AMENDED CSC 11-12-86

AMENDED CSC 5-14-96

Revised 9/2010 (OC Quals.)

Revised 1/23/2025 (CJAM Promotional Qualifications)