

Jurisdiction: City of Ithaca
Jurisdictional Class: Competitive
Adopted: 09/08/21

STORMWATER ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: This is a supervisory engineering position with a specialized focus on stormwater engineering. The Stormwater Engineer plans, designs, coordinates, schedules, and supervises new construction, reconstruction, maintenance, and repairs to City stormwater systems and related infrastructure. The Stormwater Engineer supervises stormwater construction crew activities and coordinates between DPW divisions for design reviews, Stormwater Pollution Prevention Plans (SWPPPs), dredging projects, flood control projects and roadway drainage projects. The Stormwater Engineer also coordinates with the Town of Ithaca and Tompkins County on regional flooding issues that impact the City of Ithaca. The Stormwater Engineer may provide engineering support for other public works projects as assigned. The work is performed in accordance with established engineering principles and construction techniques, with flexibility allowed for choosing methods and materials. The work is performed under the general supervision of the Construction Engineer with considerable leeway allowed for the exercise of independent judgment in carrying out the technical details of the work. Supervision is exercised over a construction crew comprised of skilled, semi-skilled and unskilled workers. Does related work as required.

TYPICAL WORK ACTIVITIES:

Plans, schedules, and supervises new construction, reconstruction, maintenance, and repairs to City stormwater systems and related infrastructure;
Performs engineering design and analysis of stormwater projects;
Coordinates public works projects with contractors, consultants and DPW staff;
Inspects construction for conformance with job requirements, contract provisions, and City standards;
Interprets contract specifications and construction standards for contractors and field staff, and resolves differences in interpretation;
Prepares, reviews and approves Stormwater Pollution Prevention Plans (SWPPPs); develops erosion and sediment control plans;
Supervises stormwater construction crew activities and trains subordinate staff;
Serves as primary contact for developers, consulting firms, and contractors for stormwater design reviews;
Coordinates and collaborates with other municipalities and government agencies on regional stormwater and flooding issues and projects;
Prioritizes and prepares budget estimates for construction, maintenance, and repair work;
Performs survey and other field work to lay out projects or gather information;
Utilizes a variety of engineering software and survey equipment;
Develops and maintains database of repair work;
Prepares and maintains a variety of records and reports.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES, PERSONAL CHARACTERISTICS:

Good knowledge of modern engineering principles, practices, equipment and terminology; good knowledge of civil engineering and construction practices related to stormwater projects; good knowledge of the federal, state and local laws, rules, regulations, codes and procedures governing municipal stormwater management; good knowledge of federal, state and local laws, rules and regulations pertaining to erosion and sediment control; good knowledge of construction means, methods, and procedures; good knowledge of design and specification writing, computer-aided design, inspections and field surveying and layout; skill and tact in dealing with the public; skill in utilizing computer aided design and other engineering related software and common office software

Full Performance Knowledges, Skills, Abilities, Personal Characteristics – continued:

programs including word processing, spreadsheets and databases; ability to coordinate multiple construction projects; ability to plan and supervise the work of others; ability to train subordinate staff; ability to understand and interpret complex oral and written information; ability to interpret plans and specifications; ability to prepare activity records and reports; ability to establish and maintain effective working relationships; ability to successfully work with and serve a diverse local community; mechanical aptitude; willingness to work in all weather conditions; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS:

- A. Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Civil Engineering, Environmental Engineering, Construction Management or a closely related field with similar course curriculum and one (1) year of full-time paid, or part-time paid equivalent, engineering or public works experience that included stormwater analysis, field engineering or civil construction activities; or
- B. Graduation from a regionally accredited or New York State registered two-year college with an Associate's degree in Construction Technology, Engineering Technology or a closely related field or similar course curriculum and three (3) years of full-time paid, or part-time paid equivalent, engineering or public works experience that included stormwater analysis, field engineering or civil construction activities; or
- C. Graduation from high school or possession of a high school equivalency diploma and five (5) years of full-time paid, or part-time paid equivalent, engineering or public works experience that included stormwater analysis, field engineering or civil construction activities; or
- D. An equivalent combination of training and experience as defined by the limits of (A), (B) and (C).

SPECIAL REQUIREMENTS:

- 1. Possession of a valid New York State Class D driver license or a valid driver license equivalent to a New York State Class D driver license at the time of appointment and maintenance of said license for the duration of employment.
- 2. Candidates must obtain certification as a Certified Professional in Erosion and Sediment Control (CPESC) by EnviroCert International within two (2) years of appointment and must maintain said certification for the duration of employment.