

Jurisdiction: City of Ithaca
Jurisdictional Class: Competitive
Adopted: 01/08/01
Revised: 02/26/01, 07/12/17, 09/07/22

ENVIRONMENTAL ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: This is a professional engineering position responsible for the planning, design, inspection, construction supervision, contract management and technical review of engineering projects related to the water distribution system and wastewater collection system of the City of Ithaca. The Environmental Engineer also serves as the City Stormwater Management Officer, performing general regulatory oversight for Municipal Separate Stormwater Sewer System (MS4) requirements, and overseeing and administering the City's Stormwater Management Program. General supervision is received from the Assistant Superintendent of Public Works with considerable leeway permitted for the exercise of independent professional judgment. Direct supervision is exercised over engineering staff. Technical direction is also provided to professional peers within the Water and Sewer Division. Does related work as required.

TYPICAL WORK ACTIVITIES:

Has charge of the engineering, construction management and first order survey and mapping activities of the Water and Sewer Division;

Conducts and prepares first order surveys involving GPS equipment and software;

Serves as the City Stormwater Management Officer for all Municipal Separate Stormwater Sewer System (MS4) requirements; oversees and administers Stormwater Management Program;

Prepares, reviews and approves Stormwater Pollution Prevention Plan (SWPPP); develops erosion and sediment control plans, and TR-55 hydraulic and hydrologic modeling;

Supervises the design and plans and directs the construction of new water mains, bridge crossings, storm drains, sanitary sewers, retaining walls, buildings, water and sewer pump stations, water and wastewater plant processes, and piping;

Prepares cost estimates, time schedules and materials specifications for plant projects, water and sewage system maintenance and extensions, bridge crossings, buildings and other structures;

Supervises the design and plan preparation for extensions to the water supply and sewage disposal systems;

Supervises the maintenance and permanent storage of City maps, cemetery maps, assessment maps, surveys, construction drawings, etc. of City owned facilities;

Checks the design of water and wastewater infrastructure, structures and hydraulic equipment submitted with applications for site permits;

Directs and administers the following regulatory functions: water and wastewater main installation and testing, inspection of outside site water and wastewater piping and appurtenances;

Assists in the review of building plans, and the preparation of permit limits for plants;

Provides engineering assistance to other City departments, particularly in the areas of stormwater runoff, chemical and petroleum bulk storage, water quality standards, and hazardous waste;

Drafts specifications for and recommends the purchase of equipment, machinery, materials, tools and other supplies;

Makes periodic evaluations of the job performance of subordinates;

Assists in budget planning and capital improvement preparation, and is involved with the overall control of the financial operations of the Water and Sewer Division;

May act for and in place of the Assistant Superintendent of Public Works (Water and Sewer) as assigned.

Environmental Engineer

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FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES, PERSONAL CHARACTERISTICS:

Thorough knowledge of the principles and practices of civil and environmental engineering; thorough knowledge of modern methods and practices as applied to the environmental compliance, construction and maintenance of public works; thorough knowledge of federal, state and local laws, rules and regulations pertaining to stormwater management; thorough knowledge of federal, state and local laws, rules and regulations pertaining to erosion and sediment control; working knowledge of governmental accounting and budgetary procedures; ability to design major engineering projects and to prepare engineering plans and specifications and to carry out municipal public works programs; ability to train and direct subordinates; ability to understand and carry out complex administrative and technical oral and written directions; ability to prepare clear and concise reports; ability to establish and maintain successful working relationships; ability to successfully work with and serve a diverse local community; willingness to respond to emergency situations; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS:

Possession of a Bachelor's Degree in Environmental, Civil or Sanitary Engineering and two (2) years of full-time paid environmental, civil or sanitary engineering experience, or its part-time paid equivalent.

Note: College degrees must have been awarded by a college or university accredited by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education and/or U.S. Secretary of Education. If an applicant's degree was awarded by an educational institution outside the United States and its territories, the applicant must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found at <https://www.cs.ny.gov/jobseeker/degrees.cfm>. Applicants are responsible for payment of the required evaluation fee.