

Jurisdictional Class: Competitive
EEO Category: Professionals
Adopted: 12/20/2023

SENIOR ENGINEER (WASTEWATER)

DISTINGUISHING FEATURES OF THE CLASS: Responsible for technical engineering and administrative duties pertaining to the Oneida County Sewer District wastewater treatment and conveyance systems. The Work is performed under the direction of the Commissioner of Water Quality and Water Pollution Control or designee. Supervision is exercised over subordinate employees. Direct supervision may be exercised over various staff temporarily assigned to assist with engineering design and inspections. The incumbent performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

Assists in the department's Capital Improvement Plan (CIP) development and implementation;

Assists with the management of technical, administrative and financial aspects of assigned wastewater infrastructure projects;

Manages consultants, engineers, architects, and contractors involving wastewater planning, design, and construction projects;

Performs complex engineering calculations and prepares detailed design drawings in support of sanitary sewer conveyance system and wastewater treatment plant improvements projects;

Negotiates with local, state and federal regulatory authorities and establishes protocols in compliance with regulatory requirements, including modification of regulatory permits;

Performs the review of commercial and residential development proposals with respect to impacts on the County-owned wastewater infrastructure;

Research and preparation of funding applications;

Leads the development and management of standards and specifications, procedures, and protocols concerning technical/engineering/operational items concerning Oneida County Sewer District operations and regulations;

Reviews the conveyance and wastewater treatment systems for operational efficiency and prepares recommendations as required;

Performs field investigations and inspections as necessary;

Develops specifications for procurement of goods and services including preparation of bid documents, negotiations with bidders and recommendation of bid awards;

Utilizes the department's Geographic Information System (GIS);

Utilizes the departments Computerized Maintenance Management Systems (CMMS) for the sewer collection system and the facility assets;

Manages utility infrastructure mark-outs in support of NYS Code Rule 753 – Protection of Underground Facilities (UDig-NY);

Maintains technical materials and assists with technical research and guidelines on current issues;

Responds to emergencies during and after normal work hours;

Proficiency in AutoCAD and GIS is desired.

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FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of engineering relating to the design, operation and maintenance of sanitary sewer collection system and wastewater treatment plant physical, biological and chemical processes; Thorough knowledge of methods, equipment and terminology used in wastewater collection and treatment; Thorough knowledge of construction specifications, plans, codes, rules and regulations; Ability to supervise, direct and inspect work on projects; Ability to make involved engineering computations, prepare engineering records and technical reports; Ability to manage multiple projects; Mechanical aptitude; Strong organizational, interpersonal and management skills; Ability to meet deadlines and lead effectively under pressure in emergencies; Good judgment; Reliability; Proficiency utilizing computer hardware and software systems associated with conveyance and wastewater treatment.

MINIMUM QUALIFICATIONS: Either:

- (A) Possession of Bachelor of Science degree in Civil, Mechanical, Sanitary, or Environmental Engineering, Environmental Science, Construction Management, or closely related field **AND** six (6) years of relevant work experience involving planning, design, and construction projects with emphasis on wastewater collection and treatment including two (2) years of supervisory experience; **OR**
- (B) Possession of Associate degree in Civil, Mechanical, Sanitary, or Environmental Engineering Technology, Environmental Science, Construction Management, or closely related field **AND** eight (8) years of relevant work experience involving design, and construction projects with emphasis on wastewater collection and treatment including two (2) years of supervisory experience.

SPECIAL REQUIREMENT: Possession of a valid New York State driver's license at time of appointment. License must remain valid throughout appointment.

NOTES:

1. Degree(s) 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/U.S. Secretary of Education. If the degree was awarded by an educational institution outside the United States and its territories, the candidate must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found on the Internet at <http://www.cs.ny.gov/jobseeker/degrees.cfm>. Candidates will be required to pay the evaluation fee.
2. Verifiable part-time experience will be pro-rated toward meeting full-time experience requirements.
3. Though not required, preference will be given to applicants who also hold one or more of the following: Registered as a Professional Engineer in New York State and/or possession of New York State Grade 3A Wastewater Treatment Plant Operator certification.