

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

ENGINEER (WASTEWATER)

DISTINGUISHING FEATURES OF THE CLASS: Responsible for technical engineering duties for the engineering aspects pertaining to the Oneida County Sewer District wastewater treatment and conveyance systems. Work is generally performed under the direction of the Senior Engineer or designee. The incumbent performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

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

Assists with the management of consultants, engineers, architects, and contractors involving wastewater planning, design, and construction projects;

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

Provides technical support to senior staff regarding regulatory compliance and permitting items;

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

Assists senior staff with the research and preparation of funding applications;

Assists in the development of standards and specifications, procedures, and protocols concerning technical/engineering/operational items that impact the department;

Assists in the reviews the conveyance and wastewater treatment systems for operational efficiency and preparation of recommendations as required;

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;

Performs field investigations and inspections;

Assists with maintaining the spare parts inventory;

Assists with 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;

Proficiency in AutoCAD is desired.

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FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Conceptual knowledge of engineering relating to the design, operation and maintenance of sanitary sewer collection system and wastewater treatment plants; Knowledge of methods, equipment and terminology used in wastewater collection and treatment; Ability to interpret construction drawings and specifications; Ability to perform rudimentary engineering computations, prepare engineering records and technical reports; Ability to manage multiple projects; Strong organizational, interpersonal and management skills; Ability to meet deadlines and lead effectively under pressure in emergencies; Good judgment; Good verbal and written communication skills; Reliability; Proficiency utilizing computer hardware and software systems.

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** a combination of one (1) year of relevant educational internship(s) and/or work experience involving design and construction projects with a preferred emphasis on wastewater collection and treatment; **OR**
- (B) Possession of Associate's degree in Civil, Mechanical, Sanitary, or Environmental Engineering Technology, Environmental Science, Construction Management, or closely related field **AND** three (3) years of relevant work experience involving design and construction projects with emphasis on wastewater collection and treatment.

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

NOTE: 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.