

CITY OF CHATTANOOGA
Classification Specification Title: Waste Resources Plant Engineer
(Wastewater)

Department: Wastewater

Pay Grade: WWFG.11E

Supervision Received From: Engineering Manager

FLSA Status: Exempt

Supervisory Responsibility For: None

Established: 6/29/07

Revision Dates: 4/4/25;

9/5/24; 10/20/23; 10/03/22

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for performing staff engineering support work associated with the City's Waste Resources Division including the wastewater treatment plant, pump stations, Combined Sewer Overflow (CSO) treatment facilities; collection system; landfill, superfund remediation sites, and wood recycling center. Work requires limited supervision and the use of independent judgment and discretion.

SERIES LEVEL:

The Waste Resources Plant Engineer is a stand-alone classification.

ESSENTIAL FUNCTIONS:

(The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.)

Serve as a lead to lower-level staff which includes prioritizing and assigning work; training staff on work methods and procedures and/or performing other related activities.

Perform process control evaluations of unit processes at the wastewater treatment plant, landfills and the wood recycling center to improve efficiency and effectiveness of treatment processes.

Develop and evaluate standard operating procedures and performance measures for unit processes at the wastewater treatment plant, pump stations, CSO treatment facilities, landfills, and the wood recycling center.

Develop and perform updates of unit operations and maintenance costs for each unit processes at the wastewater treatment plant, pump stations, and CSO treatment facilities.

Develop and evaluate short and long-range preventative, predictive and corrective maintenance plans for wastewater treatment plant unit process equipment, pump stations, and CSO treatment facilities.

Participate in project management activities associated with water resources which includes: reviewing and evaluating methods and procedures for new sewer rehabilitation projects; coordinating collection system project activities; investigating project locations; assembling bid documents; calculating cost estimates; monitoring work performed on collection system projects; preparing and reviewing plans for internal collection system projects; ensuring compliance with applicable codes, laws, standards, and procedures and performing other related activities.

Assist in developing and administering the division budget, and assists in developing and evaluating rate structures.

Compile and monitor various administrative and statistical data related to division operations; reviews and analyzes related logs, datasheet, and graphs

Process a variety of documentation associated with division operations.

Conduct research related to water resource activities and operations; analyzes data and identifies trends; prepares or generates related reports; makes recommendations based on findings; maintains related records and information.

Perform unit process pilot studies, equipment tests, chemical trials, and similar evaluations; collects and analyzes data; prepares cost evaluations; prepares related reports; makes recommendations based on findings.

Prepare specifications and requests for proposals for bidding processes associated with equipment, supplies, chemicals, repairs and services for wastewater treatment plant, pump stations, CSO treatment facilities, collection systems, landfills, and the wood recycling center; analyzes and evaluates bids; makes recommendations based on findings.

Participate in/on a variety of meetings, committees, task forces and/or other related groups in order to receive and convey information.

May use, carry and answer a cell phone for business purposes as determined by the assigned job duties and the Department Head.

Must meet regular attendance requirements.

Must be able to maintain good interpersonal relationships with staff, co-workers, managers and citizens.

Must accomplish the essential functions of the job, with or without reasonable accommodations, in a timely manner.

Perform other duties as assigned.

DEPARTMENT SPECIFIC DUTIES (if any):

Manages sustainability programs to reduce electrical, natural gas, water usage, and carbon footprint.

Manages Easement and property acquisition and disposition, surveying, appraisals, engineering, and construction, record keeping of as built drawings and Operation and maintenance manuals.

Coordinates purchasing activities for mid-sized construction and maintenance projects.

MINIMUM QUALIFICATIONS:

Bachelor's Degree in Civil, Environmental, Chemical or Mechanical Engineering and ten (10) years previous experience that includes wastewater collection systems or treatment plant design/operations; industrial or manufacturing production unit processes; industrial, municipal, utility regulatory management, industrial or engineering budgeting and cost analysis and civil/chemical/environmental engineering construction or production management.

LICENSING AND CERTIFICATIONS:

Professional Engineer License

Professional Engineer License must be issued in the State of Tennessee

Valid Driver's License

KNOWLEDGE AND SKILLS:

Knowledge of environmental engineering principles; chemical engineering principles; mechanical engineering principles; wastewater collection systems; water treatment plant design and operations; industrial or manufacturing production unit processes; budgeting principles; cost analysis techniques; applicable permit requirements; project management principles; applicable federal, state and local laws, ordinances, codes, rules, regulations, standards, policies and procedures; industrial cost accounting principles and capital planning principles.

Skill in prioritizing and assigning work; managing projects; evaluating process controls; developing and evaluating standard operating procedures; conducting studies; developing budgets; compiling and evaluating statistical data and information; interpreting and applying applicable laws, ordinances, codes, rules, regulations, policies and procedures; communication and interpersonal skills as applied to interaction with coworkers, supervisor, and the general public, sufficient to exchange or convey information and to receive work direction.

PHYSICAL DEMANDS:

Positions in this class typically require fingering, grasping, talking, hearing, seeing, and repetitive motions.

WORK ENVIRONMENT:

Light Work: Exerting up to 20 pounds of force occasionally and/or up-to 10 pounds of force frequently and/or a negligible amount of force constantly to move objects. If the use of arm and/or leg controls requires exertion of forces greater than that for Sedentary Work and the worker sits most of the time, the job is rated for Light Work. Incumbents may be subjected to moving mechanical parts, electrical currents, vibrations, fumes, dusts, extreme temperatures, workspace restrictions, and infectious diseases.

SPECIAL REQUIREMENTS:

Safety Sensitive: N

Department of Transportation - CDL: N

Child Sensitive: N

The City of Chattanooga, Tennessee is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourage both prospective and current employees to discuss potential accommodations with the employer.