

Senior Mechanical Maintenance Technician - 2414

Primary Reason Why Classification Exists

To perform technical and skilled electrical and mechanical work in the maintenance, repair, overhaul, and installation of parts and equipment in municipal water and wastewater treatment plants and related facilities to ensure effective and efficient operation of wastewater treatment facilities

Essential Duties

- Performs journey level mechanical and electrical maintenance on various types of pumps, engines, motors, and related heavy equipment used in water and wastewater treatment utilizing hand, bench, hoists, and machine tools; rebuilds a variety of pumps, motors, and other plant equipment; installs and maintains chemical feeding systems
- Replaces or repairs heavy duty motors and hydraulic, pneumatic, hydraulic, and electrical equipment such as bearings, shafts, sleeves, and other parts; orders necessary parts and supplies and maintains parts inventory
- Diagnoses problems with plant equipment; makes repairs to SCADA and other automated mechanical and electrical/electronic remote control systems
- May be required to operate treatment plants when required; performs duties of treatment plant operator
- Makes periodic inspections of equipment to ensure proper functioning to plant standards; lubricates and changes oil in equipment; cleans and paints plant equipment
- Performs related tasks as required

Knowledge, Skills, and Abilities

- Thorough knowledge of standard practices, methods, tools, and materials of the electrical and mechanical trades
- Thorough knowledge of the occupational hazards connected with general maintenance operations
- Knowledge of federal, state, and local regulations, plant standard operating procedures, and supervisory instructions
- Knowledge of city and department policies and procedures
- Knowledge of the methods, materials and tools used in the installation, operation, repair, and maintenance of wastewater treatment equipment
- Knowledge of effective communications practices when exchanging information, resolving problems, and interacting with co-workers and the general public
- Ability to take and enforce appropriate safety precautions
- Ability to work from sketches and to understand and carry out oral and written instructions
- Ability to establish and maintain effective working relationships with co-workers, other city employees, other local government officials, vendors, and the general public
- Skill in the use and care of bench and hand tools, machines, and equipment

Physical Requirements

This is heavy work requiring the exertion of 100 pounds of force occasionally, up to 50 pounds of force frequently, and up to 20 pounds of force constantly to move objects. Work requires climbing, balancing, stooping, crouching, reaching, walking, pushing, pulling, lifting, grasping,

and repetitive motions. Vocal communication is required to express or exchange ideas. Hearing is required to perceive information at normal spoken word levels. Visual acuity is required for visual inspection involving small defects and/or small parts, use of measuring or testing devices, assembly of equipment, operating plant equipment including motor vehicles, determining the accuracy and thoroughness of work performed, and observing general surroundings and activities

Working Conditions

The work is typically performed at wastewater treatment plant facilities. Work occurs in both inside and outside environmental conditions including extreme heat and cold. Employee is subject to the noise from motors and pumps in a water plant which may require the worker to shout to be heard above the ambient noise level; vibration such as oscillating movements of the extremities or whole body; hazards including exposure to mechanical equipment and atmospheric conditions from exposure to fumes, odors, dusts, and oils. Employee may be required to wear a respirator. Employee may also work in close quarters, crawl spaces, shafts, small enclosed rooms, and other areas which could cause claustrophobia.

Education and Experience

Graduation from high school or GED equivalency and completion of advanced coursework and certifications in heavy duty electrical and mechanical trades related to physical water and wastewater treatment plant operations. And, at least 7 - 10 years broad-based experience in maintaining physical plant assets of water and wastewater treatment plants. An Associate's degree in electrical or mechanical trades, computerized control systems, or related field is desired

Special Requirements

- North Carolina Grade II Water Pollution Control Collection System Operator
- Valid North Carolina commercial driver's license (CDL-B) with air brake & tanker endorsement
- Certified to operate and maintain SCADA and other remote sensing motor control systems
- Certified in first aid and CPR

FLSA Status: Nonexempt (eligible for overtime or equivalent compensatory time at 1½ times the employee's regular weekly rate for all hours worked in excess of 40 hours in the City's official work week and not the employee's work schedule).

Disclaimer

This classification specification has been designed to indicate the general nature and level of work performed by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities, and qualifications required of employees to perform the job. The Physical Requirements and Working Conditions section of this classification may vary from position to position and a more thorough description of these elements can be found in the employee's Position Analysis Questionnaire (PAQ). The employer reserves the right to assign or otherwise modify the duties assigned to this classification.