



JOB DESCRIPTION

Title: **WATER DISTRIBUTION SCADA TECHNICIAN**
Department: Public Works/Water
Class Code: 3430
FLSA Status: Non-Exempt
Effective Date: September 1, 2024

GENERAL PURPOSE

Under general supervision from the Water Distribution Supervisor, performs technical work in the operation and maintenance of the water/wastewater Supervisory Control and Data Acquisition (SCADA) system and monitors the water distribution system by means of SCADA.

ESSENTIAL DUTIES

- Routinely checks functions of all well and spring operations, i.e. head pressures, line pressure, sand separators, pressure recorders and pump station operations. Performs preventative maintenance on pumps, including electronic metering pumps and motors as necessary.
- Prepares detailed reports of performance and condition of pumping facilities. Assists with completing special and technical reports for State and Federal agencies.
- Identifies, designs, and constructs improvements to instrumentation and sampling processes at all Murray City utility facilities.
- Performs preventative maintenance and calibration of various SCADA instrumentation. Performs and analyzes software and hardware installation/upgrades for SCADA. Reviews and approves SCADA drawings.
- Performs routine sampling for bacteriological analysis including fluoride content, radiological, pesticide, chemical analysis, lead and copper, trihalomethanes, chlorine residuals, pH, temperature and conductivity.
- Responsible for the mechanical and electronic equipment systems at various water/wastewater sites, well stations, lift stations and pressure reducing valve sites; installs, maintains, tests, repairs, and replaces defective telemetry and mechanical equipment within both the SCADA command center and in the field.
- Monitors and trains lower level staff on the operation of the SCADA system.
- Locates water lines per our Blue Stake call center requirements.
- Coordinates with Murray City GIS and IT departments to ensure SCADA network security and the mappings for the water utility is correct.
- Performs inspections and completes the necessary forms for the inspections of all water mains, service lines, meter boxes and fire lines.

- Checks and maintains all electrical, fiber optics, SCADA, telemetering and telephone equipment associated with the water system.
- Performs specialized work involving installation, maintenance, repair, inspection and testing of water meters, backflow prevention devices, regulating valves, well and booster pump equipment.
- Maintains records on each of Murray City's water supply locations.
- Responds to trouble calls from Water, Sewer, Streets, Power, Police and Fire Dispatch; assists water, streets and sewer crews as needed.
- Monitors and coordinates the interior and exterior maintenance of the Water Department's properties.
- Performs related duties as required.

MINIMUM QUALIFICATIONS

Education and Experience

- Graduation from high school and three (3) years' experience in the water industry with some experience in water line maintenance and operation of a SCADA system instrumentation and automation or any equivalent combination of education and experience.

Special Requirements

- Must possess a valid Utah Commercial Driver License.
- Must possess Class IV Water Distribution Certification within six (6) months of hire.
- Must possess Inductive Automation, Ignition Core Certification within six (6) months of hire.
- Performs duties on trouble truck and must be generally available and respond within thirty (30) minutes to emergency "call outs" at any time of day, year-round, regardless of weather conditions.

Necessary Knowledge, Skills and Abilities

- Knowledge and understanding of how culinary water systems function and operate, basic knowledge of electricity and instrumentation and must have skills in troubleshooting problems with automatic valves and switches.
- Knowledge of Allen Bradley programming logic controllers (PLC). Ability to troubleshoot problems and perform necessary maintenance and programming.
- Knowledge of pertinent Federal, State, and local laws, codes, and regulations.
- Must possess the ability to read grade stakes.
- Ability to efficiently operate Microsoft Office Suite.
- Must be able to communicate effectively both verbally and in writing.
- Must be able to gather and report accurate, detailed information pertaining to the water system.

TOOLS & EQUIPMENT USED

- Motorized vehicles and equipment including dump truck, pickup truck, utility truck, pumps, compressors, generators, common hand and power tools, shovels, wrenches, radio, phone, ditch witch, air purifying respirator, full body protection suit, Self Contained Breathing Apparatus (S.C.B.A.), well sounder and line locator, tools and equipment used in electrical work, and computers, laptops, network equipment and software.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee is regularly required to use hands to manipulate, handle, feel or operate objects, tools, or controls and reach with hands and arms. The employee frequently is required to stand, walk, and talk or hear. The employee is regularly required to sit; climb or balance; stoop, kneel, crouch, or crawl; and smell.
- The employee must frequently lift and/or move up to 25 pounds and occasionally lift and/or move up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee regularly works in outside weather conditions. The employee regularly works near moving mechanical parts and is frequently exposed to wet and/or humid conditions and vibration. The employee occasionally works in high, precarious places and is occasionally exposed to fumes or airborne particles, toxic or caustic chemicals, and risk of electrical shock.
- The noise level in the work environment is usually loud.

DEPT/DIVISION APPROVED BY: _____ DATE: _____

EMPLOYEE'S SIGNATURE: _____ DATE: _____

H. R. DEPT. APPROVED BY: _____ DATE: _____