

SCADA SPECIALIST

GENERAL STATEMENT OF RESPONSIBILITIES

This position is responsible for highly technical skilled work related to Supervisory Control and Data Acquisition (SCADA) computer hardware, software, network and communication systems and Programmable Logic Controllers (PLCs). The incumbent is guided by District policies, receives assignments from the District Manager and/or Department Managers, and uses good judgement in the application of technical knowledge. This is a District safety-sensitive position in accordance with Arizona law.

EXAMPLES OF DUTIES TO BE PERFORMED

1. May serve as a lead to staff to include assigning and monitoring work and providing direction.
2. Provides technical support in the design, installation, construction, and modification of Supervisory Control and Data Acquisition (SCADA) hardware, software, network, and communication systems.
3. Installs, maintains and services the Remote Telemetry Units (RTUs) and Programmable Logic Controllers (PLCs) that monitor and control the wastewater collection and treatment functions and reclaimed water storage and distribution functions.
4. Performs corrective and preventive maintenance to ensure the proper operation and calibration of wastewater and reclaimed water system instrumentation, control loops, and monitoring circuits.
5. Monitors SCADA data and responds to SCADA system user problems; troubleshoots SCADA system and PLC malfunctions and implements or recommends effective repairs and adjustments.
6. May provide technical training; participates in training and startup of new equipment, systems, and processes.
7. Monitors and maintains materials, inventory, and supplies necessary for communication systems; and requests the purchase of materials and supplies within established budgets.
8. Prepares, plans, schedules, processes and completes work orders in the area of responsibility.
9. Prioritizes work orders and work tasks to ensure the continuous and safe operation of wastewater treatment and collection facilities.
10. Provides input relative to the fiscal needs for the operation and maintenance of District SCADA and/or instrumentation systems.

11. Provides on-call support during non-business hours including evenings, weekends, and holidays to troubleshoot and resolve automated control and data communication systems.
12. Maintains regular attendance and punctuality.
13. Complies with and implements District's safety programs as applicable to area of responsibility.
14. Performs other duties of a similar nature or level.

REQUIRED KNOWLEDGE AND SKILLS

1. Knowledge of the methods, materials, tools and equipment used in the operation, maintenance, and installation of wastewater collection and treatment systems.
2. Knowledge of SCADA and PLC software and hardware
3. Knowledge of radios, fiber optic, ethernet, routers, switches, TCP/IP, communications and network systems
4. Knowledge of local, state, and federal codes and regulations related to assignment
5. Knowledge of safety procedures and safe work practices
6. Knowledge of inventory principals and proper record keeping
7. Skilled in using applicable tools and equipment related to area of assignment
8. Skilled in using computers and related software applications
9. Ability to modify SCADA software
10. Ability to develop and modify SCADA graphics
11. Ability to install, inspect and test RTU's or PLCs in field locations and terminate control and instrument wiring
12. Ability to test, analyze instrument and control systems, detect errors or malfunctions and take corrective action, both in the office and the field
13. Ability to generate reports, sort and categorize data
14. Ability to prioritize and assign work in keeping with the priorities of Department Managers and the District Manager
15. Ability to understand and carry out written and oral instructions
16. Ability to read technical manuals and work instructions and apply them to the maintenance and operation activities
17. Ability to read engineering plans, schematics, construction drawings and technical specifications
18. Ability to communicate and use interpersonal skills to interact with coworkers, supervisor(s), the general public, etc. to sufficiently exchange or convey information and to receive work direction.

REQUIRED TRAINING AND EXPERIENCE

This position requires a vocational degree in related field and a minimum of two (2) years in the operation, implementation and troubleshooting of SCADA and instrumentation communication and control systems in wastewater collection and/or treatment. An equivalent combination of experience and training which provides the knowledge and abilities necessary to perform the work may be considered.

ADDITIONAL REQUIREMENTS

1. Must pass a pre-employment physical and drug test.
2. Must possess a valid AZ driver's license with a good driving record.
3. A Certification of Grade 4 Wastewater Treatment Plant Operator from Arizona Department of Environmental Quality is desirable.