



DETROIT WATER AND SEWERAGE DEPARTMENT

JOB POSTING

735 Randolph - Suite 2000
DETROIT, MI 48226

OPEN COMPETITIVE

Please read entire document before starting your application

Job Category: Technician
Title: SCADA Technician
Minimum Salary: \$47,934
Open Date: May 8, 2015

Recruitment Unit: Water Supply Operations
Vacancies: 1
Maximum Salary: \$77,140
Close Date: Open Until Filled

GENERAL SUMMARY:

The Supervisory Control and Data Acquisition Technician works in a team environment to maintain and update DWSD's Supervisory Control and Data Acquisition (SCADA) system, including the Ovation System Servers and Workstation, A-B Programmable Logic Controllers (PLCs) and iFIX Human Machine Interfaces (HMI) and Operator Interface Terminals (OIT), Local Area Network/Wide Area Network, workstations, printers and related IT infrastructure to ensure secure and uninterrupted operations. Position designs, develops, documents, coordinates and implements changes to the SCADA system to support operational changes and engineering projects. Position works with operations and IT Support staff to identify and repair faults within the SCADA Systems.

REQUIRED EDUCATION AND EXPERIENCE (position requirements at entry)

- High School Diploma or GED
- A minimum of two (2) years of SCADA system maintenance or an equivalent combination of education and experience.
- Basic skills in MS SQL, Visual and database structure and stored procedures
- Certified Control Systems Technician Certification

ESSENTIAL JOB FUNCTIONS

(Illustrative only, may not include all of the duties listed nor do the listed examples include all of the tasks)

- Maintain interfaces with transducers, process controllers, PCS, sonar level sensors and handheld communication devices, install and upgrade operational software.
- Assist in replacement of PLC module, processor, controller or OIT and reload the configuration to return the system to full operation.
- Analyze, diagnose and perform corrective action in response to SCADA alarms.
- Follow safety policies and procedures in carrying out work duties.
- Wear personal protective equipment (PPE).
- Follow security and safety policies and procedures in carrying out work duties.
- Provide on the job training.

RELATED JOB FUNCTIONS:

- Regularly inspect the working condition and maintain the cleanliness of equipment and surrounding areas.
- Analyze, diagnose and perform corrective action in response to SCADA alarms.
- Provide support for the planning and scheduling of work orders with the team leader.
- Perform equipment inspections and service.
- Perform related work duties as assigned.

SUPERVISION EXERCISED:

The SCADA Technician – Level 2 may be required to perform team coordination activities within the functional unit.



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KNOWLEDGE OF:

- System reconfiguration, modification and expansion
- System hardware and software upgrade procedures
- Utilinet 900 MHZ radio technology
- Pertinent safety practices and procedures related to industrial control systems and maintenance of industrial equipment
- Basic Geographic Information Systems

SKILL TO:

- Use advanced technology
- Install system hardware and software
- Replace PLC module, processor, controller or OIT and to reload the configuration to return the system to full operation
- Manage multiple servers and distribute software applications
- Analyze and interpret system data
- Effective oral and written communication

ABILITY TO:

- Identify network communication and connectivity issues
- Analyze performance data to identify trends and potential issues
- Interface with advance network data communications, client/server functions and characteristics and current hardware/software architecture
- Acquire additional training and knowledge of networking, the Ovation system and related process control and monitoring technology
- Maintain confidentiality and integrity of established security procedures
- Make minor programming changes in the PLC, OITs HMI and Ovation systems
- Analyze, diagnose and perform corrective action on alarms
- Understand and follow verbal and written instructions
- Establish and maintain effective working relationships with others
- Communicate effectively, both verbally and in writing
- Understand and follow verbal and written instructions
- Communicate frequently with team members and other units across the Department about process, equipment or potential problems
- Develop proficiency in unit specific operations and software
- Effectively utilize appropriate security and safety equipment and procedures
- Maintain regular and reliable attendance
- Direct team activities or to work as a team member

Physical Requirements:

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

This position requires the ability to lift and carry objects weighing up to 50 pounds; regular walking and standing for inspection and testing; frequent pushing, pulling, bending, crouching/stooping, and climbing to test and inspect electrical systems; hand/eye coordination to operate computer, testing, and calibration equipment; hand/foot coordination for manuals, test instruments and other written material; speech communication for communication to provide technical information and instructions; hearing and listening to troubleshoot electronic equipment and communicate on telephone and radio.



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Environmental Working Requirements:

This position requires the ability to work in all conditions involving exposure to outside elements and seasonal weather. Work may be performed in a plant or office environment with exposure to computer screens, working in teams and closely with all staffing levels. The noise level in this work environment is usually loud. Work may be performed in high elevation, dust and fumes; exposure to high/low voltage electrical equipment, in hazardous areas that require and personal protective equipment (PPE), and under slippery and wet conditions.

Other Requirements

Valid Michigan Driver's License

Ability to work irregular hours, to commute to DWSD facilities and work sites, and respond to after hour emergencies and on-call responses

Comments

The Detroit Water and Sewerage Department is an Equal Opportunity Employer.

This title is a non-Civil Service and at-will position. The organization may in its sole discretion fill this position on a full-time or part-time basis. The organization may in its sole discretion utilize a contract of employment, "direct hire", or other process to fill the Position within this Title. Incumbency in a position within this title does not create a property right or expectation for the incumbent. The presence of this title or the position within this title does not in any way restrict the organization's sole discretion to utilize independent contractors or other means to provide for the performance of this work.

Please Note: Employment with the Detroit Water and Sewerage Department has been set apart from the established employment processes of the City of Detroit.

THE WAY WE WORK

The Employees of DWSD....

- Work and accept responsibility to search for, create and execute new and innovative approaches to improve the performance of DWSD's services and objectives
- Assist external and internal customers to serve their needs and take responsibility for continuously improving customer service
- Foster meaningful interaction among people through the exchange of information to produce understanding
- Continuously develop and use effective strategies and interpersonal styles to engage and guide others towards the accomplishment of identified objectives and goals in the best interest of the City and community
- Consistently work toward the common good of the organization and encourage others to do the same
- Conduct themselves at all times in a professionally appropriate and respectful manner in accordance with the DWSD Common Behaviors
- Apply the proper safety/security practices according to established protocols, guidelines and policies

Please submit an employment application, letter of interest and resume for this position to:
Detroit Water & Sewerage Department

Attn: Karen Darty, Human Resources Generalist
735 Randolph, Suite 2001, Detroit, MI 48226

The Employment Application can be found on DWSD's Website:
http://www.dwsd.org/pages_n/careers.html