

CITY OF GLENDALE

TITLE: Utilities Network Engineer CLASS CODE: 942

REPORTS TO: Utilities Technology Manager GRADE: 31

DEPARTMENT: Utilities FLSA: E

JOB SPECIFICATION DATE: July 1, 2005 bwg

JOB SUMMARY:

Provides complex technical support for the Utilities department computer and System Control and Data Acquisition (SCADA) network systems. Manages the planning, purchase, installation, and support of the Utilities SCADA network.

ESSENTIAL FUNCTIONS:

1. Formulates, develops, and implements integrated SCADA network architectures.
2. Develops standards for SCADA network architecture, to include standards for wiring, equipment, system security, and routing protocol.
3. Provides project management of technical staff in the implementation, installation, configuration, and technical support of computer and SCADA network architecture.
4. Provides advanced technical expertise regarding computer and SCADA network services for both local SCADA Networks and wide area SCADA Networks.
5. Serves as primary point of contact and liaison with vendors; reviews vendor products, and coordinates and facilitates vendor interviews and presentations.
6. Negotiates technical requirements with vendors and writes technical contract specifications and proposals.
7. Designs, develops, and delivers training and workshops in computer and SCADA network systems.
8. Installs, configures, and maintains computer and SCADA network operating system and application software.
9. Installs local and wide area SCADA networks including network servers, hubs, routers, workstations, printers, and other peripheral devices.
10. Operates and maintains SCADA networks, tracks problems, monitors performance, and performs upgrades to hardware and software.
11. Participates in long and short range technology planning for the Utilities Department.
12. Maintains documentation regarding SCADA network configuration, operating procedures, and service records relating to network hardware and software.
13. Physically lift 50 pounds waist height, install network equipment in physical location.
14. Provides on call support during non business hours including evenings, weekends and holidays.
15. Coordinates with and follows the policies of the Information Technology Department to develop and monitor appropriate security features to safeguard city infrastructure.

SECONDARY FUNCTIONS:

16. Consults with Information Technology Department, department heads and other city staff to provide direction and input, and coordination of, programs involving computer and network technologies.
17. Maintains a high level of current knowledge regarding SCADA network systems technologies, architectures, and products.

KNOWLEDGE, SKILLS, ABILITIES:

Knowledge of:

SCADA networking software and hardware systems
Personal computer hardware and software, server computer hardware and software, local area networks, and wide area networks
Windows 2003 operating system, active directory, SQL server databases, and Ethernet based PLC's
Project management
Data center management
SCADA network design
Current industry trends and best practices

Abilities:

Work independently managing multiple assigned priorities and tasks maintaining project schedules and deliverables.
Establish and maintain effective working relationships with others
Communicate clearly both verbally and in writing to technical and non technical personnel
Troubleshoot and resolve software, hardware and network problems
Install, configure, and maintain personal computers, servers, switches, and routers

WORKING CONDITIONS:

Office setting.

MINIMUM QUALIFICATIONS:

Bachelor's Degree in Computer Science, Information Technology or Engineering and three years experience in supporting a SCADA network. MSCE certification is desirable. Any equivalent combination of training and experience, which provides the required knowledge, skills, and abilities is qualifying.

SPECIAL REQUIREMENTS:

None.