SENIOR ENTERPRISE NETWORK ENGINEER

Purpose:

To actively support and uphold the City's stated mission and values. To perform complex technical work in the long-range planning, design, implementation and management of the electronic communications infrastructure utilized by the City; and to provide technical assistance to staff in the installation and maintenance of voice, data, video conferencing and radio equipment.

Supervision Received and Exercised:

Receives direction from the Network Operations Supervisor or from other supervisory or management staff.

Monitors and schedules junior staff and consultant activities required to implement complex projects.

Examples of Duties:

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Duties may include, but are not limited to, the following:

- Develop tactical and long-range plans for the City's LAN/WAN and telecommunications infrastructure; perform complex analysis on the design and efficiency of the infrastructure to ensure that it's current and future structure will meet the business needs of the City; install and maintain LAN/WAN and telecommunications infrastructure equipment; administer software related to management of the infrastructure

- Act as the local agency security officer (LASO) for the Federal Bureau of Investigation's (FBI) Criminal Justice Information System (CJIS); perform duties as detailed in the CJIS Security Policy manual; implement and enforce security policy and design; implement wireless cryptology requirements for vehicle connectivity; review FBI security requirements; maintain City of Tempe security certification; and monitor CJIS infrastructure for illegal activity and audit compliance

- Manage complex technical projects including integrated voice and data, local area and wide-area networks, wireless systems, video, trunked radio and related infrastructure

- Monitor and coordinate projects of junior staff members; lead teams for project implementation and cross-training

- Assist in developing complex technical specifications for the design or purchase of communications equipment including fiber optic systems, high-speed cable, voice/data switches and routers, and related equipment; evaluate communications products

- Assist in the development and implementation of long-term goals and objectives to meet the City's LAN/WAN and telecommunications infrastructure needs

- Research LAN/WAN and telecommunications infrastructure equipment to ensure that it meets the specifications established by the City; recommend design, construction, installation, and maintenance of equipment

- Prepare operational reports including project status, equipment, network, inventory and area activity summaries; develop and maintain procedures manuals

- Participate in budget preparation and administration; prepare cost estimates for budget recommendations; monitor and control expenditures

- Participate in the selection of staff

- Maintain contact with vendors to obtain information on product changes and new products; call vendors for status reports on purchases

- Attend professional meetings and conferences as required

- Perform related duties as assigned.

Experience and Training Guidelines:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. The hiring department may include job related experience, training or license and certification preferences at the time of recruitment. A typical way to obtain the knowledge and abilities would be:

Experience:

Five years of LAN/WAN or telecommunications infrastructure engineering experience and proficiency in two of the following: switches and routers, trunked radio, cable engineering, voice networks, infrastructure security, or data communications.

Training:

Requires the equivalent to a Bachelor's degree from an accredited college or university with major course work in electronics or communications engineering or a related field.

Licenses/Certifications:

Requires the possession of a valid driver's license within six months of hire.

Possession of, or required to obtain within six months of hire, a valid Cisco Certified Design Associate (CCDA) certification.

This position is included in the City's classified service, pursuant to City of Tempe Personnel Rules and Regulations, Rule 1, Section 103.

Job Code: 419

FLSA: Exempt