ENTERPRISE NETWORK ENGINEER I/II

Purpose:

To actively support and uphold the City's stated mission and values. To perform technical work in the long-range planning, design, 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.

Distinguishing Characteristics:

Enterprise Network Engineer I

This is the entry level class in the Enterprise Network Engineer series. This class is distinguished from the Enterprise Network Engineer II by the performance of the more routine tasks and duties assigned to positions within the series including fundamental testing and maintenance of telecommunication or LAN/WAN systems. Since this class is typically used as a training class, employees may have only limited related work experience.

Enterprise Network Engineer II

This is the journey level class within the Enterprise Network Engineer series. Employees within this class are distinguished from the Enterprise Network Engineer I by the performance of complex telecommunications and LAN/WAN analysis and design duties. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the I-level, or when filled from the outside, more extensive telecommunications and LAN/WAN experience is required.

Essential Functions:

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 routine 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 project coordinator for technical projects of moderate complexity in such areas as integrated voice and data, local area and wide-area networks, video, wireless systems, trunked radio and related infrastructure.

- 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.

- Manage building projects including horizontal cabling, communications needs, underground assets, and permitting.

- 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.

Minimum Qualifications:

Experience:

Enterprise Network Engineer I

One year of LAN/WAN or telecommunications infrastructure engineering experience or a current Cisco Certified Network Associate (CCNA) certification. Proficiency in one of the following: switches and routers, trunked radio, cable engineering, voice networks, infrastructure security, wireless, or data communications.

Enterprise Network Engineer II

Three 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, wireless, or data communications.

Education:

For both levels, requires the equivalent to a Bachelor's degree from an accredited college or university with major course work in electronics or communications engineering or degree related to the core functions of this position.

Licenses/Certifications:

Requires the possession of a valid driver's license at the time of application.

Enterprise Network Engineer I

Possession of, or required to obtain within six months, a valid Cisco Certified Network Associate (CCNA) certification.

Enterprise Network Engineer II

Possession of a valid Cisco Certified Network Associate (CCNA) certification.

Examples of Physical and/or Mental Activities:

(Pending)

Competencies:

(Pending)

Job Code: 354/385

Status: Exempt / Classified