



<b>DATE</b>	January 2020
<b>JOB CODE</b>	NETWRKENG
<b>FLSA</b>	EXEMPT
<b>EEO</b>	

JOB TITLE: Network Engineer  
DEPARTMENT/DIVISION: Information Services  
REPORTS TO: Infrastructure Manager

**SUMMARY:** Responsible for the installation and management of the City’s wide area network, as well as troubleshooting for IT systems. Implement the City’s business continuity plan. Also responsible for participating in project activities.

**ESSENTIAL JOB FUNCTIONS:**

- Implementing new network solutions and/or improving the efficiency of current networks.
- Installation, configuration, and support of network equipment including routers, proxy servers, switches, WAN accelerators, DNS and DHCP.
- Configuring firewalls, routing and switching to maximize network efficiency and security.
- Maximizing network performance through ongoing monitoring and troubleshooting.
- Implementing scheduled upgrades and resolving faults in the network.
- Implementation of new solutions and improve the resilience of the modern surroundings.
- Implementation of disaster recovery operations and record backups when required.
- Maintain compliance with external regulatory controls, such as the Texas Department of Information Resources.
- Participates in a variety of special projects in support of departmental operations, which may include performing special studies; providing guidance and recommendations to departments to ensure organizational sustainability and maximize organizational efficiency, effectiveness, and performance; recommending cost- conscious decisions and actions; and/or, performing other related activities.
- Performs other duties as assigned, which may involve irregular work hours, including evenings and weekends.

**KNOWLEDGE, SKILLS, AND ABILITIES:**

- Knowledge of current network technologies, standards, protocols and hardware
- Knowledge of networking technologies and protocols, as well as network management and event logging tools
- Knowledge in the processes and tools used in monitoring a complex IT environment
- Knowledge in designing, improving, and implementing highly complex systems
- Knowledge of networking protocols (e.g., IPSEC, HSRP, BGP, OSPF, 802.11, QoS)
- Knowledge of the OSI or TCP/IP model
- Knowledge of iSCSI, Fibre Channel, SAN, NAS, RAID and I/O Storage Sub-Systems
- Knowledge of disaster and business recovery practices
- Knowledge of government operations and processes

- Skilled in tracking service call and installations
- Skilled in identifying and solving problems
- Skilled in documenting service outages and resolutions
- Skilled in working independently or part of a team in delivering excellent customer service
- Skilled in applying independent judgment, personal discretion, and resourcefulness in interpreting and applying guidelines
- Skilled in reading, interpreting, applying, authoring and explaining rules, regulations, policies, and procedures
- Skilled in preparing clear and concise reports
- Skilled in gathering and analyzing information and making recommendations based on findings and in support of organizational goals
- Skilled in operating a computer and related software applications
- Skilled in communicating effectively with a variety of individuals
- Skilled in reading and interpreting technical documents
- Ability to analyze technical problems and develop workable solutions

**MINIMUM QUALIFICATIONS:**

- Bachelor's Degree in Information Technology, Computer Science or related area of study
- 1 year of experience designing, configuring, administering, maintaining and a complex network environment, including LAN, WAN, and SD-WAN environments
- Must qualify for and maintain compliance with Criminal Justice Information Systems access requirements
- Must possess or be able to obtain and maintain a valid Texas driver's license

**PREFERENCES:**

- 1-3 years' experience designing, configuring, administering, maintaining and a complex network environment
- Hold one or more of the following certifications (or substantially similar);
  - Cisco Certified Internetwork Expert
  - Cisco Certified Network Professional
  - CompTIA Network+

**WORKING CONDITIONS:**

- Frequent reaching, sitting, talking, seeing, hearing, and manual dexterity
- Occasional climbing, balancing, stooping, kneeling, and crouching
- Sedentary office and outdoors work environments
- Occasional lifting and carrying up to 50 pounds
- Work may be performed in a data-center environment, involving loud noise and temperature irregularity
- Work both indoors and outdoors and are exposed to cold and hot temperatures, constant noise, fume/odor hazards, road hazards, heights, and mechanical and electrical hazards.

**CONDITIONS OF EMPLOYMENT:**

- Must pass pre-employment drug test.
- Must pass criminal history check.
- Must pass motor vehicle records check.