



Job Title: **Network Engineer Level 1 -3**

Department: **Information Technology**

Supervisor: **Director of Technology Engineering**

Lane Placement: **ESP Lane 13, 14, 15**

Schedule: **8 hrs / 242 days** Evaluation Group: **JCES 3**

FLSA Classification: **Non - Exempt**

JOB DESCRIPTION

Under the supervision of the Director of Technology Engineering and the Director of Information Technology, the Network Engineer will be responsible for the design, implementation, management, security and maintenance of the district data/video/voice network infrastructure. Oversees planning and operation for all aspects of the district Wide Area Network (WAN), Local Area Network (LAN), Wireless Local Area Network (WLAN), network security, content filtering, intrusion protection (firewall) and other related services. Participates in all aspects of planning for new network-related systems and services, analyzes impact on existing resources and develops technical recommendations for future growth and development. Manages enterprise-level network services, mentors, and trains all associated staff to assist in supporting the entire network infrastructure district-wide.

ESSENTIAL FUNCTIONS

- Plans and deploys major network deployment and ongoing maintenance procedures for the Wide Area Network (WAN), Local Area Network (LAN), Wireless Local Area Network (WLAN).
- Plan and deploy district network security strategies including firewall, content filtering, intrusion protection, remote access and related services.
- Serves as a technical resource for network configuration, performance analysis, monitoring, tuning, security of all network systems.
- Understands advanced networking principles, practices and protocols e.g., OSI layer 2 and layer 3 operations, 802.11, AAA security principles, cyber security operations.
- Establishes network maintenance and auditing procedures.
- Determines key technical tools to enable effective troubleshooting techniques and provides formal and informal training (mentoring) of team members on all related technical responsibilities and use of such tools.
- Audits, monitors and analyzes log files and network traffic data to identify and resolve vulnerabilities and exploits.
- Effectively communicates through written and oral means with end-users, administrators, carriers, vendors and partners in a timely manner.
- Works with the Network Team in establishing a disaster recovery plan for in relation to network infrastructure to ensure consistent connectivity at all times, and response procedures to critical situations.
- Cross trains other I.T. teams in all aspects of responsibilities, and participates in learning technical details of other System Administrator responsibilities.
- Acts as a back-up to other Systems Administrator responsibilities as needed to support the enterprise in all aspects.
- Will require occasional work off hours, evenings, weekends and holidays for scheduled maintenance and emergencies as required.
- Predictable and reliable attendance.

During times of state or district emergency, all employees may be required to perform additional duties that are not required on a normal basis in support of educational and operational priorities. e.g. Performs general cleaning and sanitizing of work areas, provides remote assistance to students and staff, and any other reasonable duty as needed.

NON-ESSENTIAL FUNCTIONS

- Other duties as assigned.

- This description should not be construed to contain every function/responsibility that may be required to be performed by an employee assigned to this position.
- To perform this job successfully, an individual must be able to perform each essential duty satisfactorily.
- The requirements listed below are representative of the education, knowledge and experience requirements; the machines, tools and equipment used; background; and any licenses or certifications required.
- Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of this position.

QUALIFICATION REQUIREMENTS

- Incumbent must be fingerprinted and clear a criminal backgrounds check.
- Requires a minimum of two (2) years network engineering and administration experience with demonstrated competence.
- A Bachelor's Degree in a Computer Science with emphasis on network engineering and security is preferred.
- Certifications in WAN/LAN/WLAN technologies and Network Security preferred. (i.e.3SA, 3MNS, CCNA, CCSP, etc)
- Requires demonstrated and extensive experience with network components and computer security devices (e.g., switches, routers, wireless access points, firewalls, filters, IPS, VPN concentrators, Access Control Lists, user-authentication)
- Requires experience with VOIP technologies, WAN, LAN, WLAN devices, Video Technology and Network Security and familiarity with layers and protocols of the standard ISO OSI model and technologies
- Must be experienced with the tools to manage a variety of vendor products in relation to WAN, LAN, and WLAN technologies including, but not limited to 3COM, CISCO, HP, etc)
- Interpersonal communication skills required: must provide organized presentations on highly technical subjects related to the network security and processes.
- Requires experience in directing enterprise-level network deployment projects.
- Willingness and ability to share knowledge with staff to raise the skill of other team members.
- Must have a good understanding of operating systems currently in use as well as server administration and management.
- Requires a valid Utah driver license.
- Lane is determined through education, certification and experience.
 - Lane 13 requires:
 - Two (2) years of prior job-related work experience with demonstrated competence in the administration of technology systems listed above.
 - Lane 14 Requires:
 - Four (4) years of prior job-related work experience in a mid-to-large sized enterprise. Must have demonstrated competence designing, deploying, and maintaining a wide range of information technology projects in complex information technology environments.
 - Minimum of one certification in WAN/LAN/WLAN technologies and/or Network Security. (Examples of applicable certifications are CCIE, WCNA, CCNA, CCSP,

CCNP or approved equivalent) An Associate's Degree in a computer related field of study counts as one certification.

- Lane 15 Requires:
 - Six (6) years of prior job-related work experience in a mid-to-large sized enterprise. Must have demonstrated competence designing, deploying, and maintaining a wide range of information technology projects in complex information technology environments.
 - Bachelor Degree in computer related field of study.
 **Note: Two (2) applicable certifications such as a CCIE, WCNA, CCNA, CCSP, CCNP or approved equivalent may be substituted for Bachelor Degree. An Associate's Degree in a computer related field of study counts as one certification.
- In addition to meeting the requirements of items a) and b) above, one additional certification such as those listed in item b) above is required.

NOTE: The Administration reserves the right to require specific training for this position. However, depending upon the type and quality of prior work experience and availability of formal training programs, some exchanges can be made between training and experience.

PHYSICAL REQUIREMENTS---*Not limited to the following:*

- Requires the ability to lift a minimum of twenty-five (25) pounds.
- Requires the ability to work on ladders and elevated surfaces.
- Requires the ability to lift and work overhead.

- Physical ability to perform the essential functions listed above with or without reasonable accommodation.
- Requires the ability to lift a minimum of twenty-five (25) pounds.
- Possess the physical, mental, and emotional stability to work under stressful conditions, including but not limited to: deadlines, contract requirements, inspection requirements, and interaction with critical personnel.

Note: *This list of essential and marginal functions and of physical requirements is not exhaustive and may be supplemented*

All employees are required to participate in the District evaluation process.
 It is the employee's responsibility to review and adhere to all district policies and procedures.
 This information may be reviewed at www.canyonsdistrict.org

ADA _____

HR _____

Effective date: 6/9/2020