Job Title: Advanced Network Engineer-Team Lead

Department: **Information Technology**

Supervisor: **Director of Information Technology**

Lane Placement: **ESP Lane 17**

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

FLSA Classification: **Non - Exempt**

JOB DESCRIPTION

Under the supervision of the Director of Technology Deployment and the Director of Information Technology, the Advanced Network Engineer - Team Lead will be responsible for the overall 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).
- Works directly with Director of Technology Deployment and Technology Consultant to 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.
- Acts as a team lead and mentor to other team members responsible for WAN, LAN, and WLAN network deployment.
- 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.
- Must have project management experience in relation to large enterprise network solutions deployment.
- 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.
- Makes key decisions and submits proposals for changes and services to appropriate Information Systems staff.
- Has well-rounded experience in system administration including, but not limited to: Unix, Windows and Macintosh servers and desktops, Web servers, SAN's, NAS's, and supportive network infrastructures.
- Advanced experience in designing, implementing and testing networks: hardening of systems, penetration testing and intrusion detection.

- Establishes plan for disaster recovery in relation to network infrastructure to ensure consistent connectivity at all times, and response procedures to critical situations.
- Cross trains other System Administrators 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.
- 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 Bachelor's Degree in a Computer Science or Network related technical field of study; or a corresponding number of years work experience in Information Technology with core emphasis on network engineering and security.
- Requires a minimum of five (5) years network engineering and administration experience with demonstrated competence.
- 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.

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:*

- Physical ability to perform the essential functions listed above with or without reasonable accommodation.
- Requires the ability to lift a minimum of ten (10) 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_____

ADVANCE NETWORK ENGINEER-TEAM LEAD