Job Title:	Network Engineer	**Wage/Hour Status:**	Exempt
Reports to:	Director, Infrastructure Services	**Pay Grade:**	507
Dept. /School:	IT	**Date Revised:**	March 28, 2022

Primary Purpose

Design, analyze, implement, manage, and troubleshoot the district's network infrastructure. Ensure highest standards with performance and availability of data infrastructure, and maximum network availability.

Qualifications

Education/Certification

Bachelor's Degree in Computer Science or related field and Five (5) years related experience with networks of similar size and complexity as the EPISD's including one-year of experience with BGP peering, Palo Alto (or similar) Layer 7 firewalls
OR
High School Diploma/GED and Seven (7) years related experience with networks of similar size and complexity as the EPISD's, including Three (3) years' experience with Cisco routing and switching, BGP Peering, and Palo Alto (or similar) Layer 7 firewalls, and the following current certifications: Cisco CCNA-Routing and Switching, Cisco CCNA-Wireless

Special Knowledge/Skills

- Ability to read, and communicate effectively (verbally, written, electronically)
- Ability to implement, configure and troubleshoot Cisco layer 2/3 switches, software configurations, and associated protocols
- Ability to design, implement, configure, and troubleshoot computer networks, protocols (TCP/IP, SNMP, IGMP, Multicast, LDAP, IPSEC, etc.) and hardware and software applications
- Knowledge of EIA/TIA cabling standards
- Ability to diagnose and correct complex network problems
- Ability to implement and troubleshoot VoIP and related protocols
- Ability to design, implement, configure, and troubleshoot Cisco wireless networks, access points, and wireless LAN controllers
- Ability to implement, configure and troubleshoot Meraki wireless networks
- Ability to implement, configure and troubleshoot network management and monitoring systems (Cisco ISE, TACACS)
- Ability to implement, configure and troubleshoot various operating systems (Windows, Linux, etc.)
- Ability to implement, configure and troubleshoot BGPv4, autonomous systems, and IPv6, ARIN
- Ability to implement, configure and troubleshoot layer-7 firewalls, NAT, PAT, and VPN (IPsec and SSL)
- Ability to implement, configure and troubleshoot DNS/DHCP, BIND, (InfoBlox-specific preferred)
- Ability to design, implement, configure and troubleshoot Cisco ACI/Fabric Path on Nexus

Major Responsibilities and Duties
Network Management and Technical Support

1. Install, operate, test, and maintain network hardware and software.
2. Analyze and design network configurations for new and existing facilities.
3. Manage projects involving upgrades and changes of the network infrastructure.
4. Monitor network equipment via management applications and tools.
5. Work with technical staff and users on reported network issues and determine resolution.
6. Identify and resolve network-related hardware and software problems.

7. Analyze and monitor network performance concerns, provide recommendations to the IT Operations Manager for improvement of network systems.
8. Lead the implementation and routine maintenance of network-related hardware and software.
9. Install, maintain, and operate servers (physical and virtual) used for network operations; integrate with District Active Directory.
10. Install, maintain, and operate District Infoblox DHCP/DNS appliances.
11. Install, maintain, and operate the District Palo Alto Firewall.
12. Work with vendors to carry out statements of work and ensuring completion of projects per District specifications.
13. Assist network and other technical staff to ensure efficient operation and resolve network and application related problems.
14. Utilize system and security tools to secure networks and associated equipment.
15. Perform other duties as assigned by supervisor.

Supervisory Responsibilities

Supervise and evaluate the performance of assigned personnel

Equipment Used

Include but not limited to: Cisco Layer 2 and 3 switches, routers, personal computer/laptop, management applications and tools, Cisco ISE, Cisco Prime VMware vCenter, Cisco TACACS, Infoblox Trinzic DHCP/DNS appliances, Palo Alto Firewall, Meraki Dashboard, iBoss cloud console, other related equipment.

Physical and Mental Job Requirements

Mental Demands/Physical Demands/Environmental Factors

Maintain emotional control under stress. Repetitive hand motions and prolonged use of computer. Occasional prolonged and irregular hours. Work with frequent interruptions. Frequent after-hours/holiday/weekend work for upgrades, scheduled maintenance, troubleshooting.

Terms of Employment

226 days; salary to be established by the Board of Trustees

The foregoing statements describe the general purpose and responsibilities assigned to this job and are not an exhaustive list of all responsibilities and duties that may be assigned or skills that may be required.

Approved: _____

Job Title: _____

Date: _____

Approved: _____

Job Title: _____

Date: _____

My supervisor has reviewed this job description with me and has provided me a copy

Employee: _____

Date: _____