## Required Qualifications:

- Associates Degree in information technology, computer science, engineering or related field or equivalent combination of education, certifications or VOIP technical experience.
- Comptia Network+, Cisco CCNA/NP, Certified Network Engineer or related networking certification.
- Six (6) years' full time experience configuring, implementing and troubleshooting routers, switches, access control lists, LAN & WAN networking protocols, firewalls, DNS, DHCP as well as extensive work experience in troubleshooting and maintaining the performance of WAN/MAN infrastructure and connectivity of client-server applications on a large-scale multi-site enterprise IP network.
- Experience and ability to independently configure, implement and troubleshoot LAN/MAN/WAN network, fiber channel, iSCSI, long range optical networks and other network infrastructure.
- Minimum four (4) years' installing, troubleshooting, implementing, maintaining and building configurations on routers, switches and load balancers.
- Experience with and ability to configure multicast and multicasting protocols (DM/SM) and link aggregation.
- Experience and broad knowledge of routing protocols, (RIP/OSPF/BGP), switch protocols, TCP/IP, telecommunication protocols (H323/SIP), VOIP call signaling and control, Ethernet, QOS, VLANs, ACL's, DHCP, DNS, TFTP, FTP, SNMP, IP addressing and subnetting, POE, etc.
- Demonstrated experience with network monitoring tools, preferably Brocade Ironview and Solarwinds.
- Demonstrated experience performing and analyzing network packet captures using packet analyzers such as Wireshark.
- Ability to work off-hours as needed/required.
- Demonstrated ability to work with minimal supervision.
- Demonstrated ability to independently and effectively complete work assignments and projects in a timely fashion.
- Demonstrated ability to meet deadlines.
- Capable of performing the essential functions of the position with or without reasonable accommodations.

## Preferred Qualifications:

- Brocade, Cisco, or related networking certifications (Brocade CNE/CCNP).
- Experience configuring, administrating and troubleshooting unified communications technologies such as Microsoft Lync.
- Experience or good understanding of Microsoft Exchange mail servers and Active Directory.
- Knowledge of storage environment and how it interrelates with networking infrastructure.
- Experience with VMWare or other virtualization technologies.
- Experience with implementing and configuring wireless technologies.
- Experience architecting and implementing high availability systems.
- Work experience in K-12 educational setting.
- Familiarity with the FCPS policies, goals and programs.

## Essential Functions:

The Network Engineer II provides support for technical direction and design expertise of all communications (LAN/MAN/WAN) network infrastructure, including network requirements, planning and implementation of network services for buildings and systems. Performs network engineering related duties with a primary focus

on WAN/MAN/LAN architecture and network administration. Reporting directly to the Supervisor of Network Infrastructure and Security, the Network Engineer II performs the following duties:

- Manage the day-to-day design and operations of all network infrastructure including video, VOIP, unified communications and network connectivity and infrastructure. This includes scheduling upgrades and maintenance that minimally impact core business and instructional functions. Performs off hour upgrades, installing patches, service packs, maintenance releases, troubleshooting, etc.
- Installs, configures, maintains and troubleshoots all network resources including telecommunications and network infrastructure, switches, Layer 1-7 connectivity, multicast, network sub-systems, and network communication links.
- Performs project management responsibilities including budgeting, RFP development, Disaster Recovery planning, etc.
- Implements and maintains network security as mandated by state, county, and internal requirements. Performs routine network audits and vulnerability assessments, verifies network security compliance.
- Performs multi-tiered incident, change management, problem resolution, and end-user support.
- Monitors faults, performance, and capacity issues; prepares remediation reports and documentation.
- Proactively researches, analyzes, identifies and resolves trends of utilization or errors and implement appropriate performance tuning and troubleshooting techniques.
- Continuously identifies opportunities for process and quality improvement and implements applicable technologies and/or process changes.
- Implement and configure highly available infrastructure including design and test of fail-over services, fault tolerance, disaster recovery, load balancing, etc.
- Implement and configure systems management and proactive monitoring tools; troubleshoots and resolves identified telecommunication and network issues.
- Implement and oversee telecommunications backup systems. Protect all systems and end user data: schedule and maintain onsite and offsite backups, review backup logs, develop and maintain backup and restore procedures, documenting recovery plans, and implement new backup technologies.
- Document all network designs, processes, and installation procedures.
- Interfaces with internal and external customers and vendors to determine communications infrastructure needs.
- Updates job knowledge by participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.

## Other Functions:
- Remain technically current and competent by learning new technologies and obtaining certifications as requested by management.
- Manage and oversee Internet/communication bills, services, and maintenance agreements, manage purchasing of network infrastructure and related equipment, open and work with TAC cases to resolve issues, creates, implements and manages IP addressing and scopes.
- Performs other duties as assigned by the Supervisor of Network Infrastructure and Security.

## Salary:

- Support Salary Scale, Grade 20, 12-month position (260 days/8 hours day)
- Salary based on education and experience