

SCHOOL DISTRICT OF FLAGLER COUNTY

JOB DESCRIPTION

Enterprise Network Engineer

QUALIFICATIONS

1. Bachelor's Degree in Computer Science preferred.
 - a. Associates Degree/Technical Certificate with related experience may be substituted for a Bachelor's Degree.
2. Minimum of (5) years of network management experience.
3. Such alternatives to the above requirements as deemed appropriate by the superintendent.

KNOWLEDGE, SKILLS AND ABILITIES:

- Deep understanding of VLANs, TCP/IP networking and routing, ethernet switch configuration, fiber optics, wireless networking and VOIP
- Thorough knowledge of the principles and practices used in the design of LANs and WANs consisting of several thousand users and multiple sites.
- Provision and deploy network and infrastructure equipment in a high speed production environment
- Skill in diagnosing complex technical problems and providing detailed analysis and recommendations
- Experience required in writing system documentation, developing project plans, presentations, correspondence, studies, reports, and training materials
- Must possess the ability to establish and maintain effective working relationships with end users and other Technology staff, set priorities based on current events, and be self-directed
- Must be able to effectively explain complex technical concepts to both technical and non-technical staff
- Understanding of routing protocols such as OSPF, SPB, BGP, and EIGRP
- Knowledge of switches, routers and firewall configuration and administration.

REPORTS TO: Executive Director of Instructional & Operational Innovation

SUPERVISES: Assigned Personnel

JOB GOAL

Position is responsible for the district-wide implementation, maintenance and administration of the district's high-speed computer network and VOIP systems. Is also responsible for data center operations, network support, as well as server, storage, backup, and mobile device management.

PERFORMANCE RESPONSIBILITIES:

- 1) Implements, installs, configures, monitors, troubleshoots, and evaluates both physical and wireless networks.
- 2) Researches and analyzes current and evolving communications capabilities and network architectures to provide information for long and short-term planning.
- 3) Manages the daily activities of local and wide area network systems, performs diagnostics, schedules preventative maintenance ensuring network systems are operational.
- 4) Responsible for installation, administration and testing of network servers, operating system

NETWORK SYSTEMS ENGINEER (Continued)

- software, hubs, routers, switches, access points, firewall, cabling, and other related network components/equipment in accordance with published standards.
- 5) Manages and administers assigned network infrastructure including capacity/feasibility planning, new installations, upgrades, configuration, feature functionality testing, maintenance, troubleshooting, backup systems, security procedures/protocols, operating procedures and guidelines, and user connectivity.
 - 6) Interacts and negotiates with vendors, and contractors to secure infrastructure products and services.
 - 7) Maintains records of work completed and in-progress; and updates network documentation to record installations, upgrades, configurations, etc
 - 8) Maintain existing firewall, Internet Filter and VPN.
 - 9) Provides assistance, as necessary, to help other technicians resolve technical problems that have been assigned through work orders.
 - 10) Trains and provides support to other technical staff regarding network administration and usage.
 - 11) Monitor network security and investigate potential security threats.
 - 12) Performs system monitoring to ensure the integrity and availability of global network resources.
 - 13) Evaluation and implementation of new technologies to meet needs and growth.
 - 14) Maintains documentation of inventory for network equipment.
 - 15) Directs efforts of technicians who are involved in diagnosing and correcting network failures and performing network management activities; determines logical solutions to complex system administration and application problems.
 - 16) At times, performs after-hours system support during scheduled and unscheduled outages.
 - 17) Troubleshooting network hardware, firmware/software, wide-area, Metro and Local Area networks, internet, switch/router configuration, TCP/IP
 - 18) Performs software installations, upgrades, and security patches to server and client operating systems and application software through device management software.
 - 19) Responsible for the integration of user workstations, including macOS, with Microsoft Windows server operating systems and Active Directory.
 - 20) Strong understanding of MacOS, as well as general Unix distributions.
 - 21) Perform other incidental tasks consistent with the goals and objectives of this position.
 - 22) Foster and develop a professional image. Consistently represent the district in a positive and professional manner.

PHYSICAL REQUIREMENTS:

Medium Work: Exerting up to 50 pounds of force occasionally, and/or up to 20 pounds of force frequently and/or up to 10 pounds of force as needed to move objects.

TERMS OF EMPLOYMENT:

Salary and benefits shall be paid consistent with the District's approved compensation plan.

Length of the work year and hours of employment shall be those established by the District.

EVALUATION:

Performance of this job will be evaluated in accordance with provisions of the Board's policy on evaluation of personnel.

*Essential Performance Responsibilities

Job Description Supplement Code 7

Flagler Schools Strategic Framework- Instructional and Operations Innovation