

NETWORK ENGINEER

DEFINITION:

Under supervision of the Chief Technology Officer, Educational Technology & Information Systems or designee, the Network Engineer is responsible for the configuration and maintenance of the FCUSD LAN/WAN/WLAN and related hardware/software. Incumbent will provide troubleshooting and documentation to LAN/WAN/WLAN to meet District needs; maintain network switching and routing, Voice over IP (VoIP), and wireless infrastructure; provide support and configuration of Network Security Firewall as well as complete security upgrades; and assist in the planning, purchasing, and servicing of all network equipment.

QUALIFICATIONS:

Experience: Minimum of three years of increasingly responsible experience in technology systems design, maintenance, and support.

Direct experience with technology systems used by the District and managing and working in a multi-site LAN/WAN/WLAN environment.

Cisco Certified Network Associate (CCNA) certification preferred and Certified Network Engineer (CNE) certification is highly desirable.

Education: Bachelor's degree from an accredited four year institution in information technology, computer programming, computer science, or other technology-related field; equivalent industry experience and training; or successful completion of a computer operations course in a private or technical school that includes a combination of instruction and operation totaling 200 hours with emphasis on the skills and knowledge below.

Other: California Driver License; this position requires the use of the employee's personal vehicle.

ESSENTIAL DUTIES AND RESPONSIBILITIES

Under the direction of the Chief Technology Officer, Educational Technology & Information Systems, or designee, incumbent will:

- Install, configure, and maintain new and existing network infrastructure device(s) and supporting software across the District, including all LAN/WAN/WLAN, wireless networks, voice services, routers, switches, UPS's, etc.
- Ensure proper network connectivity of all sites, servers, storage, workstations, telephone equipment, fax machines, and other network appliances.
- Identify network-related problem sources to resolve operational issues and restore/optimize services as needed.
- Maximize network performance by monitoring network systems and making appropriate modifications to ensure reliability and availability.
- Assist in optimizing systems and network performance and configurations through recommending improvements including hardware and/or software requirements.
- Provide support to end-users regarding access, operation, and troubleshooting of various software programs and network related problems.
- Assist in development of policies and procedures for production distributed systems.
- Prepare documentation for system usage, maintenance, troubleshooting, and implementation as required.

KNOWLEDGE:

- Management tools such as Cisco ISE, Wireshark, Solarwinds, InterMapper
- Extensive knowledge of routing and switching technology (Cisco or other)
- LAN, WAN, and WLAN concepts including installation, maintenance, and troubleshooting of network equipment
- Wireless technology and security standards
- Network traffic monitoring tools and software
- Firewall technology (Cisco or other)
- Standard software applications and peripheral equipment
- Experience with virtual server and storage hardware and datacenter methodologies
- Spanning-tree, switch trunks, and layer 3 VLANS

ABILITIES AND SKILLS:

- Communicate effectively and successfully both orally and in writing with individuals and groups, including software/hardware vendors to identify and resolve problems
- Ability to support layer 2 and layer 3 switching
- Provide user training
- Establish and maintain cooperative and effective working relationships with others
- Analyze data to identify software and hardware problems
- Maintain current knowledge of technological advances in the field

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- Effectively read, understand and apply technical and complex documents
- Obtain price quotes and make comparisons and informed specification decisions

PHYSICAL REQUIREMENTS:

Physical Abilities include the usual and customary methods of performing the job's functions and require the following physical demands: occasional lifting, carrying, pushing and/or pulling; some climbing and balancing, some stooping, kneeling, crouching; reaching, handling, touching and/or feeling; manual dexterity to operate a telephone and enter data into a computer.

Significant physical abilities include ability to sit at a desk, conference table, or in meetings of various configurations for extended periods of time; see and read, with or without visual aids, laws and codes, rules, policies and other printed matter, computer screens and printouts; hear and understand speech at normal room levels and hear and understand speech on the telephone; speak in audible tones so that others may understand clearly in normal conversations. Physical ability must be sufficient enough to lift computer equipment (computers, monitors, printers).

WORK ENVIRONMENT:

- The work environment characteristics described are representative of those an employee encounters while performing the essential functions of this job.
- Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.
- The noise level in the work environment is usually moderate.
- Employees in this position will be required to work indoors in a standard office environment and come in direct contact with district staff and the public.