

NETWORK ENGINEER - 1125

General Definition of Work:

Performs difficult technical and skilled work performing analysis, design, installation, configuration, troubleshooting and repair of instructional and administrative networks and related equipment and components. Work is performed under the general supervision of and IT Supervisor.

Essential Functions/Typical Tasks:

Designing, installing, configuring, maintaining, and troubleshooting local and wide area computer networks.

(These are intended only as illustrations of the various types of work performed. The omission of specific duties does not exclude them from the position if the work is similar, related, or a logical assignment to the position. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.)

- Performs analysis of network needs and design of network architecture, integration and installation.
- Manages, configures, installs and analyzes network security, infrastructure, voice, wireless and building security systems.
- Installs and maintains local area network hardware and software, including servers, routers, switches, firewalls, peripherals, network nodes, terminals and wiring.
- Evaluates local area network hardware and software requirements and capabilities and makes recommendations.
- Coordinates installation of hardware, software and facilities by others.
- Provides support to and trains users in local area network and PBX administration and usage.
- Monitors and maintains network stability for data and voice applications.
- Communicates and coordinates network schedule, backups and downtime to users.
- Coordinates third-party maintenance for network hardware, software and telecommunications services.
- Prepares and maintains documentation of network configurations and cabling layouts.
- Design of new office space wiring (voice, data and video).
- Install, configure, troubleshoot, and support 911 center equipment and technical functions.
- Performs work during emergency/disaster situations.
- Performs related tasks as required.

Knowledge, Skills and Abilities:

Thorough knowledge of the design, installation, configuration and maintenance of local area networks (LAN) and wide area networks (WAN); thorough knowledge of the methods, materials and equipment used in networking; thorough knowledge of basic electrical theory, computer hardware and devices, communication networks and the operation of electronic equipment; thorough knowledge of microcomputer systems hardware, software and peripheral equipment; skill in the use of word processing, spreadsheets, internet software, e-mail, inventory, database software, Network control software, Network protocols, TCP/IP, NetBEUI and SNA; skill in the use of tools in the electronics trade; ability to read and interpret architectural blueprints, electrical and electronic schematic diagrams and specifications.

Education and Experience:

Requires graduation from an appropriately accredited college or university, supplemented by courses in electronics, networking and data processing, and considerable experience in the installation, repair and maintenance of local and wide area networks. An equivalent combination of education and experience may be considered.

Physical Requirements:

This is light work requiring the exertion of up to 20 pounds of force occasionally, up to 10 pounds of force frequently, and a negligible amount of force constantly to move objects, and some medium work requiring the exertion of 50 pounds of force occasionally, up to 20 pounds of force frequently, and up to 10 pounds of force constantly to move objects; work requires climbing, balancing, stooping, kneeling, crouching, reaching, standing, walking, pushing, pulling, lifting, grasping, feeling, and repetitive motions; vocal communication is required for expressing or exchanging ideas by means of the spoken word; hearing is required to perceive information at normal spoken word levels; visual acuity is required for color perception, visual inspection involving small defects and/or small parts, use of measuring devices, assembly or fabrication of parts at or within arms length, operation of motor vehicles or equipment, determining the accuracy and thoroughness of work, and observing general surroundings and activities; the worker is subject to inside and outside environmental conditions, hazards, and atmospheric conditions.

Special Requirements:

Possession of an appropriate driver's license valid in the State of North Carolina. Position is essential as defined by the Inclement Weather Plan. Must have the ability to work a flexible schedule; requires some evenings and weekends.

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