INFORMATION TECHNOLOGY NETWORK ENGINEER

NATURE OF WORK

This is professional work performing highly technical duties within the computer networking technology field.

Work involves the installation, management, maintenance, capacity planning design and engineering for the LAN, ELAN, WAN data network infrastructure. Responsibilities include disaster recovery planning and advanced technical problem analysis and resolution for the organization's facilities and locations, establishing and maintaining network performance by building network configurations and connections; and troubleshooting network problems.

EXAMPLES OF ESSENTIAL JOB FUNCTIONS

Maintains information technology inventory records of WAN and LAN hardware and software as well as coordination of repairs and quality control tests.

Develops short and long range network design and architecture plans for the organization's facilities and data centers.

Develops configuration standard protocols across network equipment in order to ensure the integrity of systems and services.

Stays current with new complex networking technologies, architectures, methodologies, and best practices to ensure the network infrastructure meets current and future needs and requirements.

Provides first line technical support on data, voice and video networks for internal and/or external customers; answers routine technical questions; implements approved course of action.

Performs medium to high complexity network changes and implementations.

Participates in the network technology design process, configure, coordinate, and participate in the installation of all IT Network infrastructure equipment (access points, routers, switches, voice gateways, etc.).

Monitor performance and maintain systems according to requirements.

Plan, develop, install, configure, maintain, support, and optimize networks covering production, development, and corporate environments.

Continuously look for areas of improvement in redundancy, stability, performance, and security.

EXAMPLES OF ADDITIONAL DESIRED SKILLS

- Cisco routing and switching, including OSPF, BGP, VXLAN, Layer-1, 2, and 3 technologies
- Integration of SDA with Cisco solutions as well as PaloAlto firewalls
- Encryption and tunneling technologies including VPNs, IPSec, MACsec, and GRE
- Cisco Certified Network Professional CCNP
- Cisco CCNA Security certified
- Experience with databases, networks (LAN, WAN), patch management, VMWare, Office 365
- Knowledge of system security and data backup/recovery, Veeam and others
- Good time management skills
- An analytical mind
- An ability to learn new technologies quickly
- An ability to follow processes
- Strong documentation skills
- Commercial and business awareness

REQUIREMENTS OF WORK

Bachelor's degree required in Computer Science, Mathematics, Telecommunications, Management Information Systems, Electrical Engineering, or closely related field preferred.

Certifications in Cisco CCNA and CCNP Routing and Switching preferred or equivalent experiences recommended.

Proficiency in advanced analysis, installation, administration and troubleshooting of a data network.

Ability to communicate effectively, orally and in writing.

Nature of work may require the employee to occasionally be on-call 24/7 and to perform work outside of normal business hours.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Work is performed mostly in office setting; hand-eye coordination is necessary to operate computers and various pieces of office equipment.

While performing the duties of this job, the employee is frequently required to sit and talk or hear; use hands to finger, handle or feel objects, tools, or controls; and reach with hands and arms. The employee is occasionally required to walk and lift and/or move up to 25 pounds. Specific vision abilities required by the job include close vision and the ability to adjust focus.

7/2023
Pay Grade: 25
FLSA Classification: Exempt