

RED BLUFF JOINT UNION HIGH SCHOOL DISTRICT
JOB DESCRIPTION

JOB TITLE: NETWORK ENGINEER

DEPARTMENT: TECHNOLOGY SERVICES

REPORTS TO: DIRECTOR OF TECHNOLOGY

DEFINITION:

Under general direction of the Technology Support Supervisor, the Network Engineer installs and configures network system and servers. The Network Engineer also operates, monitors performance, and diagnoses problems in Local Area Networks (LAN), servers and associated workstations. The Network Engineer monitors and manages network devices to ensure reliable, consistent and secure connectivity of the network infrastructure.

EXAMPLES OF DUTIES:

Essential duties and responsibilities include the following:

- Oversee and direct the installation, configuration, and maintenance of network equipment used to carry data, voice and video communications
- Monitor and report network and server performance and utilization
- Troubleshoot and resolve network problems to ensure access to Red Bluff Joint Union High School District networks and systems
- Administer an enterprise Local Area Network using Cisco switches and routers, Windows servers, Linux/Unix systems, network performance tools and applications
- Support and troubleshoot telecommunications services
- Prepare and present recommendations for network enhancements, optimizations, and/or modifications
- Oversee and manage network security
- Create and maintain network and security configuration standards
- Design, implement, and manage Wi-Fi networks
- Support LAN Systems Support Specialists
- Other related duties as required

QUALIFICATIONS

Knowledge of:

- Network management and monitoring tools including Netflow, Syslog, IPAM, Traffic Analyzers, and Protocol Analyzers
- Network protocols including TCP/IP, EIGRP, OSPF, SNMP, SMTP, NAT/PAT, STP, 802.1Q, 802.11a/b/g/n, IPSec and Netflow
- Cisco IOS and related features including VTP, STP, 802.11x, VLANs, Multi-Layer Switching
- Security services including TACACS, RADIUS, ACS, Cisco ASA's, IDS/IPS systems, and VPN
- Cisco routers
- Domain Name Service (DNS) record types, record conventions, and troubleshooting

- Email communication routing, troubleshooting, archiving, and filtering
- Web filter practices and technologies
- VMware Virtualization technologies
- MS SQL Server, TSQL, and Microsoft Data Transformation Services

Ability to:

- Manage and oversee high level projects from beginning to end
- Evaluate, prepare, and present written analysis of LAN/WAN related technologies
- Manage and negotiate vendor hardware and software contracts
- Designing and implement reliable networks using industry best practices
- Maintain good customer relationships
- Troubleshoot complex Layer 2 and Layer 3 connectivity issues
- Follow verbal or written plans and technical instructions with minimal supervision and guidance
- Prioritize projects and services to minimize user interruptions and downtime
- Design, quote, present and implement complex network and system upgrades
- Document configurations, procedures and settings
- Communicate effectively both written and verbally with customers, employees, and team members
- Establish and maintain network and server standards, policies, and procedures including disaster recovery, remote access, and appropriate security actions to ensure the safety and integrity of data, hardware and service deliveries

PHYSICAL DEMANDS

The physical requirements indicated below are examples of the physical aspects that this position classification must perform in carrying out essential job functions.

- Persons performing service in this position classification will exert 25 to 100 pounds of force frequently to lift, carry, push, pull, or otherwise move objects
- This type of work involves sitting, but may involve walking or standing for extended periods
- Perceiving the nature of sound, near and far vision, depth perception, providing oral information, the manual dexterity to operate equipment and use hand tools, and handle and work with various materials and objects are important aspects of this job

Reasonable accommodation may be made to enable a person with a disability to perform the essential functions of the job.

ENVIRONMENT

The work environment indicated below are examples of the environmental conditions this position classification must expect in carrying out the essential job functions.

- The work is performed primarily inside an office or office/laboratory environment
- Exposure to hot, cold, wet, humid, or windy conditions caused by weather may occasionally be experienced
- Exposure to adhesive and cleaning solvents/chemicals
- Exposure to moderate to loud noise and vibrations

- Exposure to electromagnetic fields
- Possible exposure to electric shock

EXPERIENCE AND EDUCATION

Any combination of experience and training that would likely provide the required knowledge and skill is qualifying. A typical way to obtain the required knowledge and skill would be:

- Bachelor's Degree in Computer Science or Computer Information Systems preferred
- Cisco Certified Networking Associate (CCNA) preferred
- Significant training/experience in network and systems installation, operations and troubleshooting
- Three years directly related experience including: installing and supporting local and wide area networks and servers

License Requirement

Possession of a valid California Motor Vehicle Operator's License.