

BEAUFORT COUNTY SCHOOLS JOB DESCRIPTION

JOB TITLE: NETWORK ENGINEER – TECHNOLOGY DEPARTMENT

Reports To: Director of Technology

Location/Dept: Technology Department

Qualifications: Completion of a four-year degree in Computer Science, or a related field with coursework in networking and two years of network experience including wide area networks, and supervisory training or experience; or an associate degree in Computer Science or related field, two years' experience in a wide area network environment, supervisory training, or experience. Knowledge of networking protocols, experience in routed and frame relay network environments, experience with network management utilities. Certification in network operating system's software, other appropriate hardware certifications, or any equivalent combination of training, certification, and/or experience which provides the required knowledge, skills, and abilities.

Job Goal: The Wide Area Network (WAN) Engineer is responsible for designing and implementing wide area networks in a local school agency. Employee supervises the installation, maintenance, and operation of a wide area network and associated computer hardware and software. Employee coordinates with the Director of Technology the evaluation of school system networking needs and recommends improvements and modifications to existing infrastructure. Employee diagnoses and resolves complex wide area network issues.

Essential Duties:

- Designs and implements wide area networks including network servers, routers, and other network devices.
- Installs and configures wide area network servers.
- Installs and configures all necessary telecommunication devices.
- Diagnoses and resolves complex wide area network issues.
- Participates in Major Incident Management activities, identifying network performance issues and trends. (e.g., Identifies failing network components, reviews firewall for blocks, tracing of network traffic).
- Proactively handle all network security solutions.

- Operates and maintains wide area networks, tracks significant problems, monitors performance, and performs upgrades to hardware and software as required.
- Participates in long- and short-range technology planning.
- Attends classes, seminars, conferences, and reviews professional literature to enhance knowledge of trends and developments related to wide area network systems.
- Performs other duties as assigned by the Chief Technology Officer and/or Director of IT Infrastructure.

Knowledge, Skills, and Abilities

- Strong knowledge of wide area network architecture
- Strong knowledge of infrastructure requirements and components of wide area networks
- Strong knowledge of design and implementation of networks
- Strong knowledge of WAN topology and routing protocols
- Strong working knowledge of VOIP infrastructure
- Ability to communicate effectively with all levels of technology users.

Physical Requirements

- Auditory acuity at a level to function effectively in all forms of communication. • Visual acuity to read and analyze all forms of documentation.
 - Apply principles of logical or scientific thinking to define problems, collect data, establish facts, and draw valid conclusions.
 - Hand and finger dexterity for written communication, computer input and output data.
 - Must be able to express and exchange ideas by means of oral and written expression
- Special Requirements.
- Must have a valid North Carolina Driver's License and be able to operate a vehicle.