KERN COUNTY SUPERINTENDENT OF SCHOOLS
MODIFIED APPROVED MAY 2014
RANGE: 52.0
CLASSIFIED
CODE: 2

NETWORK SYSTEMS ENGINEER I

DEFINITION
Under the general direction of the Network Operations Coordinator, the Network Systems Engineer I will provide engineering support toward the installation and administration of Networking for Kern County Superintendent of Schools and school districts in the Kern County region;

will provide planning for local-and wide-area networking strategies for school districts and the Kern County Superintendent of Schools Office;

provide support for the educational and administrative data communications systems;

is responsible for undertaking broad and complex assignments in support of highly complex, multi-platform network systems.

The Kern County Superintendent of Schools installation consists of Cisco, Novell, Microsoft, Linux and other network systems using Ethernet (10, 100, gigabit), T1, Fiber optic, Microwave, and Wireless technologies.

EXAMPLES OF DUTIES
Support Internetworking using Cisco routers and switches with network communications structured by copper, fiber optic cabling, and wireless systems.

responsible for monitoring and diagnosing problems related to the local-area and wide-area network using network management tools such as SNMP, LAN and WAN management systems;

will support office and school district's use of the Internet and electronic data communication hardware such as routers and concentrators;

support network operating systems such as Novell Netware, Windows Server and Linux.;

support Linux, Windows, Macintosh, and other system interconnectivity on the network;

assist in the planning and support of Network Printer solutions and installations;

support the maintenance and functionality of data communications equipment on the Ethernet backbone;

and shall also provide strategies to support the technology planning and installation needs of K-12 school districts.

QUALIFICATIONS
Knowledge of:
Network technology in local-area and wide-area networks;

Ethernet, NICs, routers, switches, cabling, and workstations.

Windows Server desirable with knowledge of Linux, Windows and Macintosh connectivity;

must possess knowledge of and willingness to stay abreast of trends, innovations and practices in both microcomputer and networking technology, including hardware and software.

Ability to:
Communicate effectively in public, in conference and in written materials;

must possess excellent writing and oral communications skills, and demonstrate experience in preparing and presenting network administration training sessions to lay and professional audiences;

must be innovative in the networking and microcomputing field;

exhibit an energetic and vital personality;

must have excellent organizational skills and the ability to function in a highly complex environment.

Experience:
Must have three (3) years of progressively responsible experience in a related area of microcomputer systems;

and have two (2) years of experience with local-area or wide-area network design and management of networks, including experience with network routing.

Must be well versed with IP addressing and subnet-masking procedures;

at least one year experience with Servers;

hands on experience with routers desirable, not theory only;

must have LAN/WAN experience;

a MIS background is also desirable;

must have experience with Linux or Windows Server, Network Operating System (NOS) certification desirable;

network experience in an Ethernet environment;

must have a systems management background;

SNMP management background and experience is desirable;

project management experience desirable.

Education:
The Network Systems Engineer I must be a graduate of a four year college or university, with a Bachelor's degree in business administration or computer science highly desirable.

Equivalent experience in an applied setting regarding the above technology can be substituted for the college degree.

Conditions of employment:
Some positions may require proof of privately owned automobile insurance and possession of a valid California Motor Vehicle operator's license which must be maintained for the duration of the assignment.

Fingerprint clearance by both the Federal Bureau of Investigation and the California Department of Justice is a condition of appointment after all other required job conditions have been met.

Must present verification of completion of Child Abuse Mandated Reporter training or obtain verification within six (6) weeks of hire and annually thereafter, as required by the California Child Abuse and Neglect Reporting Act.

This position has a probationary period of six months or 130 days, whichever is longer.

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