



Kansas Research and Education Network
P.O. Box 442167
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www.kanren.net

Position Title: Network Engineer

Reports to: Assistant Director for Technical Services

Based at: KanREN Network Operations Center, Lawrence, KS

Salary Range: \$50,000 - \$65,000 (year)

Position Description:

Network Engineers are responsible for architecture, design, implementation and maintenance of wide and local area networks and associated support mechanisms. Network Engineers are the primary staff involved in network design/engineering as well as backbone, AS boundary, or network architecture related issues or problems, and the third tier for general network problem resolution. Network Engineers are occasionally called upon to assist member sites with architecture, design, implementation and maintenance of their networks in a consulting role. Network Engineers may also manage networking projects and direct and/or act as an information resource to Network Administrators and others. KanREN's generally small staff requires that all employees be self-starters that can work on several different problems and/or projects at one time.

Essential Functions:

WAN/LAN architecture and engineering; device configuration, installation and maintenance.
Task prioritization, timely resolution to problems and timely project completion
Adheres to the KanREN Vision, Mission, and Values at all times
Participation in the after-hours emergency response team
Cross-training in other technical areas to maintain complete understanding of all technical operations
Willingness to work frequent extra or odd hours as projects and/or technical events dictate
Occasional travel – sometimes overnight
Technical writing, documentation, and delivery of technical seminars
Project management/leadership
Able to lift 50lbs
Other duties as assigned

Key Technologies or Abilities:

Superior capabilities with accepted WAN/LAN architectures including transport, routing, QoS, etc.
Proficiency configuring and troubleshooting WAN/LAN circuits (HDLC, PPP, ATM, Ethernet, etc.)
Design proficiency with IPv4 and IPv6 (unicast and multicast) network protocols and addressing
Proficiency with both IGP and EGP design and architecture (OSPF, OSPFv3, ISIS, MBGP, PIM, MSDP, etc.)
Experience with systems-based network support services (DNS, VPN, DHCP, etc.)
Experience with UNIX-based operating systems as a systems administrator
Ability to work individually and with a team
Ability to manage time and resources effectively for teams and projects
Ability to communicate complex topics to a wide variety of audiences accurately and effectively
Experience with network monitoring, measurement and management tools and methodologies
Superior customer service skills in a customer-centric environment

Requirements:

Four year degree, preferably in a technical or scientific field. At least four years experience in network administration and/or engineering with experience managing multi-homed autonomous systems. Strong written and verbal communication skills are a must. The Network Engineer must be a motivated, life-long learner committed to keeping up to date with emerging networking technology.

Authority:

Directs resources for the restoration of services.
Approves telco/service provider dispatch to troubleshoot/restore service.
May be assigned to approve architecture/design changes to network configuration(s).

Financial Responsibility:

May approve expenditures related to telco/service provider dispatches.
May purchase/approve consumable items in emergencies (patch cables, connector cleaning supplies, etc.)
Assists the Assistant Director for Technical Services in generating technical budget items.