Network Engineer III (full-time, 35 hours/week)  
Technology Services  
Position 203533

The Technology and Communications Infrastructure division of technology services maintains a stable, reliable, available, scalable and cost effective network, computing and communications infrastructure sufficient to accommodate the University’s needs, and provides cost effective and high quality technical support to the university community.

The role of the Technology and Communications Infrastructure group includes installing and maintaining network, server, central storage systems and related systems and services; establishing the client computer architecture and installing and maintaining systems and services necessary to deploy and manage it; maintaining the security of computers, networks, and their data; maintaining adequate network, server and central storage system performance levels; planning for and evaluating new technologies; and prototyping systems and configurations.

**Position Summary:** Maintains a stable, reliable, available network and communications infrastructure for the University, performing installation, configuration, operation and maintenance of related equipment and software. Designs and implements solutions to meet network and communication infrastructure requirements.

**Essential Responsibilities Include:** Administer network, communication and computing infrastructure including equipment and software, and maintain related documentation. Install, configure and maintain data network and communications equipment and services. Administer computing infrastructure including servers, storage systems and related equipment and software. Maintain up-to-date technical knowledge of the enterprise network and communications infrastructure in use at the university. Configure and maintain network software services for the university, including network address assignment and name resolution. Implement and maintain procedures or software to enhance and/or automate network and communications administration tasks; document programs and procedures; ensure that automated tasks perform correctly. Monitor and maintain the integrity and security of network, systems and data; plan and implement changes to avert problems. Monitor, analyze and report on utilization and performance trends of the data network and related equipment, identify potential performance or capacity problems, plan and implement changes to avert problems. Maintain inventory and documentation of equipment and software, including specifications, configuration, diagrams, connections, licensing, product lifecycle and maintenance information. Plan and implement new or upgraded network and communication infrastructure equipment or related software. Design and develop plans to enhance the network and communications infrastructure; research products and establish technical requirements; define project scope, requirements, and deliverables, and develop a project plan to meet objectives. Coordinate project activities, including performing assigned tasks and coordinating with external providers or contractors, ensuring project remains on schedule and that work accomplished meets specifications. Perform or oversee technical testing and migration to the production environment of new or enhanced systems and services, ensuring minimal disruption to current operations. Develop network, communications and computer-related contingency plans and disaster recovery procedures. Provide technical support, in a pleasant, professional and courteous manner.

**Minimum Qualifications:** Bachelor's Degree required, preferably in a related field; Master's degree preferred. Must have at least five years’ experience administering recent-version enterprise-class Cisco switches, routers, firewalls and wireless controllers. At least three years’ materially demonstrated success in designing and implementing network and communications infrastructure in a large campus environment. Knowledge of, and materially demonstrable skill in applying, the following: IT concepts, principles, methods, and practices; Information security principles and methods; Network cabling standards (TIA/EIA-568-C); Wireless networking topology and protocols; Local area networking concepts, methods and protocols; Network switching concepts, methods and protocols; Network diagramming tools, including Microsoft Visio; Microsoft Office applications. Knowledge of, and materially demonstrable experience implementing and configuring, the following technologies: Cisco enterprise-class routers and switches; Cisco data center switches; Enterprise-class firewalls; Enterprise-class wireless networking; Enterprise network monitoring/management tools; Microsoft Windows Server network services in an Active Directory environment, including DNS, DHCP; Knowledge of, and materially demonstrable experience implementing and configuring, at least four of the following technologies: Enterprise-class load-balancing and application delivery; Enterprise-class remote access and authentication services; Network intrusion prevention; Network traffic management; Network access control; Campus-wide IPv6; Enterprise-class IP telephony (VoIP).

**Preferred Qualifications:** Current, expert-level certification in Cisco networking is preferred, e.g., Cisco Certified Internetwork Expert (CCIE). Experience implementing and configuring the following technologies is a plus: Quality of service (QoS) techniques for shaping network traffic; IP multicasting for scalable distribution of data, voice, and video streams; Methodologies for transitioning from IPv4 to IPv6 networking; Infrastructure as a Service (IaaS) services, especially Microsoft Azure or Amazon Web Services; Virtualization system or IaaS cloud services virtual networking; Enterprise email security...
products, especially Cisco IronPort; Linux server. These certifications are highly desirable: Additional expert-level or higher certifications in Cisco networking, e.g., CCDE, CCAR; Associate-level or higher certification in Microsoft Windows Server, e.g., MCSA, MCSE; One or more of the following certifications is desirable: Information security certification, e.g., CompTIA Security+, CompTIA CASP, CISSP; Linux server certification, e.g., RHCE; Data center or cloud virtualization certification, e.g., VCAP, VCDX.

**How to apply:** forward application, resume, and cover letter: CUARecruitment@cua.edu. Reference position 203533 in subject line or on application. Position closes on 5/31/15.

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