



# University Network Engineer – Staff - California Northstate University, Elk Grove, California, USA

**POSITION TITLE:** Network Engineer  
**REPORTS TO:** Director of Information Technology  
**WORK SCHEDULE:** 1.0 FTE, full time, exempt  
**CLOSING DATE:** Open until filled

A network engineer plays a crucial role in designing, implementing, and managing an organization's computer networks to ensure optimal performance, security, and reliability.

## **Primary Responsibilities:**

### **Network Design and Planning:**

- Evaluate the organization's current network infrastructure and assess its requirements.
- Design and plan network solutions that align with the organization's goals, scalability, and security needs.
- Develop network architecture diagrams and documentation.

### **Network Implementation:**

- Configure, install, and maintain PAN Firewalls, Aruba managed switches, Cisco Concentrator, and software components, including routers, switches, firewalls, and wireless access points.
- Set up and manage virtual private networks (VPNs) PAN Global Connect for remote access.
- Implement network security measures, including firewalls, intrusion detection systems, and access control lists.

### **Network Monitoring and Maintenance:**

- Monitor network performance, identifying and resolving issues promptly.
- Conduct routine maintenance and updates to ensure the network remains secure and up to date.
- Perform regular backups of network configurations and data.

### **Troubleshooting:**

- Diagnose and resolve network-related problems, both hardware and software.



- Respond to network emergencies and outages, often on a 24/7 basis.
- Collaborate with other IT teams to troubleshoot and resolve complex issues.

#### **Network Security:**

- Implement security policies and protocols to safeguard the network from unauthorized access, malware, and other threats.
- Conduct security assessments and audits to identify vulnerabilities and propose solutions.

#### **Capacity Planning:**

- Monitor network traffic and usage patterns to anticipate and plan for network capacity expansion.
- Recommend and implement network upgrades as necessary to accommodate growth.

#### **Documentation and Reporting:**

- Maintain accurate and up-to-date documentation of network configurations, changes, and procedures.
- Generate reports on network performance, security, and utilization.

#### **Collaboration:**

- Work closely with other IT teams, including system administrators, cybersecurity specialists, and application developers, to ensure seamless integration and operation of network services.

#### **Qualifications**

- Bachelor's degree in computer science, information technology, or a related field (or equivalent experience).
- Relevant industry certifications such as Cisco Certified Network Professional (CCNP), CompTIA Network+, or Juniper Networks Certified Internet Associate (JNCIA).
- Strong knowledge of networking protocols, routing, switching, and network security principles.
- Proficiency in network management and monitoring tools.
- Excellent problem-solving and communication skills.
- Ability to work independently and as part of a team.
- Knowledge of cloud networking (e.g., AWS, Azure) is a plus.



Please submit your cover letter, curriculum vitae/resume, list of references, and any additional information to [hr@cnsu.edu](mailto:hr@cnsu.edu) . Review of applicants will begin immediately and will continue until the position is filled.

California Northstate University is an Equal Opportunity and Affirmative Action Employer. All qualified candidates are encouraged to apply. For inquiries, please contact us at: e-mail: [hr@cnsu.edu](mailto:hr@cnsu.edu) and/or telephone: (916) 686-7400.