

**UNIVERSITY OF SOUTHERN CALIFORNIA**

**Senior Network Engineer Security**

**Job Code: 167574**

---

**OT Eligible: No**

**Comp Approval: 12/17/2019**

---

**JOB SUMMARY:**

Builds network security infrastructures, managing the configuration and maintenance of network equipment and monitoring tools, and the coordination of responses to network-related incidents. Leads team collaborations with security operations, governance, system administrators and others. Designs and deploys required solutions to harden university platforms. Demonstrates ITS values in action.

**JOB ACCOUNTABILITIES:**

**\*E/M/NA % TIME**

- |       |       |   |
|-------|-------|---|
| _____ | _____ | Builds network security infrastructures, managing the configuration and maintenance of network equipment and monitoring tools, and the coordination of responses to network-related incidents. Manages the development and implementation of solutions to protect network infrastructure from internal/external threats. Identifies and implements technologies and processes to improve the overall security of systems. Aligns activities to approved security policies, and ensures compliance with statutory and regulatory requirements regarding information access, security, and privacy. |
| _____ | _____ | Leads network security collaborations with campus departments, delivering highly reliable and secure network services, and determining suitability and capability of devices connected to campus networks. Advises peers as a trusted partner, providing subject matter expertise and timely written and oral communications to stakeholders, technical staff, and management as required. Communicates and reports network security incidents and issues to university and ITS leadership.   |
| _____ | _____ | Directs the implementation of firewall solutions to properly secure campus data, evaluating and recommending projects for operational support (e.g., configuration changes). Advocates for solutions to existing threats and security issues, advising on risk assumptions and providing alternatives. Leverages the latest industry knowledge to identify opportunities for innovation and continuous improvement.   |
| _____ | _____ | Safeguards university networks and systems from cyberattacks, intrusions, infiltrations, and natural disasters by ensuring their ability to recover from or withstand major incidents. Drives network security system maintenance, identifying required system patches and other periodic tasks as needed. Reviews and monitors security appliances, identifies opportunities and gaps, and enacts changes based on operational requirements.   |
| _____ | _____ | Collaborates with team members and management, implementing effective network security solutions to support the network engineering team's vision. Maintains currency with new and emerging technology, standards, and best practices. Supports process improvement efforts within the team and across the ITS organization.  |

Performs other related duties as assigned or requested. The university reserves the right to add or change duties at any time.

\*Select E (ESSENTIAL), M (MARGINAL) or NA (NON-APPLICABLE) to denote importance of each job function to position.

**EMERGENCY RESPONSE/RECOVERY:**

Essential:  No

Yes In the event of an emergency, the employee holding this position is required to “report to duty” in accordance with the university’s Emergency Operations Plan and/or the employee’s department’s emergency response and/or recovery plans. Familiarity with those plans and regular training to implement those plans is required. During or immediately following an emergency, the employee will be notified to assist in the emergency response efforts, and mobilize other staff members if needed.

**JOB QUALIFICATIONS:**

**Minimum Education:**

- Bachelor's degree
- Combined experience/education as substitute for minimum education

**Minimum Experience:**

5 years

**Minimum Field of Expertise:**

CCNP Security, CCIE Security, OSCP, CISSP, CEH, and/or equivalent certifications. Extensive experience designing and working with firewall and intrusion prevention systems. Extensive experience working with network access control platforms. Experience designing and implementing security measures within public cloud environments (e.g., AWS, Azure). Extensive experience troubleshooting and deploying solutions involving certificates and public key infrastructures (IEEE 802.1X or SSL Decryption and offloading) and designing and deploying web proxy and content filtering solutions for data loss prevention. Extensive experience performing packet and flow analysis with various toolsets including in-line taps, IPS/firewall appliances, network routers, and hosts. Experience leading design discussions developing network security solutions. Ability to generate reports, create presentations, and present to appropriate stakeholders, including leadership. Excellent management, leadership, and written and oral communication skills. Ability to effectively communicate, negotiate, and collaborate with individuals and teams across an organization. Experience working in project-based environments, able to report on project status, evaluate risks, and escalate issues.

**Preferred Education:**

Bachelor's degree

**Preferred Experience:**

8 years

**Preferred Field of Expertise:**

Bachelor's degree in computer science, computer information systems, information technology, or relevant field. Extensive leadership experience in IT, network engineering, and/or network security. Experience designing and working with firewalls, intrusion prevention systems and infrastructure monitoring tools, specifically SolarWinds and Fortinet. Experience working with the network access control platform HPE ClearPass.

**Comments:**

May require work, and travel, on weekends, evenings, and/or holidays, based on business necessity.

**SIGNATURES:**

Employee: \_\_\_\_\_ Date: \_\_\_\_\_

Supervisor: \_\_\_\_\_ Date: \_\_\_\_\_

The above statements are intended to describe the general nature and level of work being performed. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified.

The University of Southern California is an Equal Opportunity Employer