



JOB INFORMATION

Job Code:	167571
Job Title:	Network Engineer Security (ITS)
FLSA Status:	Exempt
Supervisory:	
Job Family:	Network Administration
Job Family Group:	Information Technology
Management Level:	7 Individual Contributor

JOB SUMMARY

Supports planning, design, optimization, implementation, audit, and troubleshooting of network security systems, improve the overall posture of the university and its assets. Collaborates with other teams, including security operations, governance, and system administrators, to successfully design and deploy required solutions to harden university platforms. Demonstrates ITS values in action.

JOB QUALIFICATIONS:

Education

Req	Pref	Degree	Field of Study	
X		Bachelor's degree		
	X	Bachelor's degree		In
	X		Computer Science	Or
	X		Computer Information Systems	Or
	X		in related field(s)	

Additional Education

Check here if experience may substitute for some of the above education.

Combined experience/education as substitute for minimum education

Work Experience

Req	Pref	Work Experience	Experience Level	
X		4 years		
	X	2 years		

Additional Work Experience

Check here if education may substitute for some of the above work experience.

Combined experience/education as substitute for minimum work experience

Knowledge, Skills and Abilities

Req	Pref	Functional Skills
X		Experience with Border Gateway Protocol (BGP), intrusion detection, proxies, firewalls, packet capture, and/or data loss prevention.
X		Experience designing and implementing security measures within public cloud environments (e.g., AWS, Azure).
X		Experience troubleshooting and deploying solutions involving certificates and public key infrastructures (802.1X or SSL decryption and offloading), and designing and deploying web proxy and content filtering solutions for data loss prevention.
X		Experience performing packet and flow analysis with various toolsets including in-line taps, firewall/IPS appliances, network routers and hosts.
X		Experience working with network access control platforms, writing shell scripts using Python or Bash, and using infrastructure monitoring tools.
X		Experience designing and working with firewall and intrusion prevention systems.
X		Experience working in project-based environments, able to effectively collaborate and communicate with individuals and teams across an organization.
X		Ability to generate reports, create presentations, and present to appropriate stakeholders.
X		Ability to contribute expertise to design discussions and support the development of network solutions.
	X	Experience in IT and/or network engineering.
	X	Experience designing and working with firewalls, intrusion prevention systems and infrastructure monitoring tools, specifically SolarWinds and Fortinet.
	X	Experience working with the network access control platform HPE ClearPass.

Certifications

Req	Pref	Select Certifications	Enter Additional Certifications
	X		CCIE Security, CCNA Security, CCNP Security, Fortinet NSE4, OSCP, CISSP, and/or CEH certifications.

Other Job Factors

JOB ACCOUNTABILITIES

	% Time	Essential	Marginal	N/A
Works collaboratively with key stakeholders within ITS and other university departments to deliver highly reliable network services. Proactively creates and maintains detailed written documentation. Openly shares experience and subject-matter expertise with co-workers through written and oral presentations. Provide timely communications to stakeholders, technical staff, and management as required.				
Develops and implements solutions to protect network infrastructure from internal/external threats. Ensures compliance with statutory and regulatory requirements regarding information access, security, and privacy. Plans and executes system upgrades, bug fixes and other changes using service management software and methodologies.				
Actively engages customers to resolve network issues. Consults with university departments to determine device suitability and capability for campus network connections, in accordance with approved network and security policies.				
Properly secures university data by evaluating, recommending, and performing new firewall implementations, configuration changes, and other projects and solutions, including those requiring security operational support. Leverages the latest industry knowledge to identify opportunities for innovation and continuous improvement. Pursues information on new network engineering developments, reading journals and other pertinent publications, talking with vendors, and participating in professional organizations, meetings, conferences, seminars and training courses.				
Maintains network security systems, leveraging existing tools and leading-edge practices (e.g., upgrading and applying software updates and patches to network devices). Reviews and monitors security appliances, and enacts changes based on operational requirements. Builds network security infrastructures and responds to network-related incidents in a timely fashion. Configures and maintains network				

JOB ACCOUNTABILITIES

	<i>% Time</i>	<i>Essential</i>	<i>Marginal</i>	<i>N/A</i>
equipment and monitoring tools. Test systems for software and hardware weaknesses, and assists incident response for breaches and intrusions.				
Actively participates in the identification of operational opportunities and gaps. Recommends and implements solutions that solve security challenges while meeting business objectives. Provides advice regarding assumed risk for any variances granted. Collaborates with experts and vendors to find, recommend, and implement industry leading, effective security practices.				
Aids the cultivation of an inclusive environment and a culture of trust and transparency, sharing information broadly, openly, and deliberately. Builds and maintains collaborative relationships with diverse team members, peers, and leaders. Actively embodies ITS values and behaviors (e.g., accountability, ethics, best-in-class customer service).				
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.				

Other Requirements

<i>Essential:</i>	<i>Emergency Response/Recovery</i>	<i>Essential:</i>	<i>Mandated Reporter</i>
	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.		A mandated reporter who in his or her professional capacity has knowledge of, or reasonably suspects a person who is under the age of 18 years, elderly, or a dependent adult has been the victim of abuse or neglect must report the suspected incident. The reporter must contact a designated agency immediately or as soon as practically possible by telephone or in writing within 36 hours. By virtue of the associated job duties, this position qualifies as a mandated reporter as required by state law and USC's policy at: https://policy.usc.edu/mandated-reporters/
<i>Campus Security Authority (CSA)</i>			<i>Essential:</i>
By virtue of the associated job duties, this position qualifies as a Campus Security Authority as required by law and USC's policy at: https://dps.usc.edu/alerts/clery/			No

ACKNOWLEDGMENTS

The above statements reflect the essential and non-essential functions as necessary to describe the principle contents of the job. They are not intended to be a complete statement of all work requirements or duties that may be required of the position. I understand that I may be asked to perform other duties as assigned. USC reserves the right to add or change duties at any time.

The University of Southern California is an Equal Opportunity Employer. USC prohibits discrimination on any basis protected under federal, state, or local law, regulation, or ordinance or university policies. All employment decisions are based on individual qualifications and business need.

I acknowledge receipt of this job description and its associated physical requirements. I have read and understand the job description and job requirements and agree to abide by their contents. I realize that duties may be requested of me that are not specifically stated herein. I understand that I will be expected to adjust to potential fluctuations in work volume. I understand that, if I have any questions about the essential functions or expectations of my position, my supervisor and/or HR partner are available to discuss them with me.

Print Employee Name

Signature

Date

Print Manager Name

Signature

Date

This job description describes the general nature and level of work required by the position. It is not intended to be an all-inclusive list of qualifications, skills, duties, responsibilities or working conditions of the job. The job description is subject to change with or without notice, and Management reserves the right to add, modify or remove any qualification or duty. Nothing in this job description changes the existing at-will employment relationship between the university and the employee occupying the position.