



JOB INFORMATION

<i>Job Code:</i>	165593
<i>Job Title:</i>	Network Engineer III
<i>FLSA Status:</i>	Exempt
<i>Supervisory:</i>	May lead one or more employees and/or students performing similar work.
<i>Job Family:</i>	Network Engineering
<i>Job Family Group:</i>	Information Technology
<i>Management Level:</i>	7 Individual Contributor

JOB SUMMARY

Provides network engineering and technical support for LAN, WAN, and network infrastructure to ensure that systems are operating at peak efficiency with little or no downtime. Designs, configures, troubleshoots, and maintains university network equipment across multiple brands. Ensures that industry best practices are applied with regard to the use of technology, procedures, and methodology. Provides delegation and direction to other Network Engineers. May provide technical and training assistance to less experienced network engineers.

JOB QUALIFICATIONS:

Education

<i>Req</i>	<i>Pref</i>	<i>Degree</i>	<i>Field of Study</i>	
X		Bachelor's degree		
	X	Bachelor's degree	Computer Science	Or
	X	Bachelor's degree	in related field(s)	And
	X	Master's degree	Computer Science	Or
	X	Master's degree	in related field(s)	

Additional Education

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

<input checked="" type="checkbox"/>	Combined experience/education as substitute for minimum education
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Work Experience

<i>Req</i>	<i>Pref</i>	<i>Work Experience</i>	<i>Experience Level</i>	
X		3 years		
	X	5 years		

Additional Work Experience

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

<input type="checkbox"/>	Combined experience/education as substitute for minimum work experience
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Knowledge, Skills and Abilities

Req	Pref	Functional Skills
X		Strong experience and technical knowledge in the area of local and wide area networking, communications, and related hardware and software.
X		Knowledge of data network and telecommunications protocols including but not limited to STP, OSPF, MPLS, BGP, IPV6, SIP, multicast, DNS, and DHCP.
X		Understanding of information technology concepts for voice and data systems.
X		Demonstrated strong oral and written communication skills.
X		Strong analytical abilities.
	X	Networking Engineering with certifications such as Cisco CCNP, Redhat RHCE.
	X	Ability to write, modify, maintain, and document software tools in a high-level language.

Other Job Factors

- May provide 24/7 on-call support as needed.

JOB ACCOUNTABILITIES

	% Time	Essential	Marginal	N/A
Assists in the design and deployment of local area networks (LANs), wide area networks (WANs) and wireless networks, including servers, routers, hubs, switches, UPSs, and other hardware. Identifies, assesses and develops detailed requirements for new and existing campus networks in accordance with approved network design. Creates detailed implementation plans for project teams, including method of procedure documentation. Analyzes and resolves complex network problems.				
Suggests and optimizes complex network hardware, software, systems, and communication links for university, under minimal supervision. Oversees installation, configuration, maintenance and troubleshooting of campus network, network monitoring software and peripheral applications and/or devices. Performs advanced needs analysis, configuration and problem diagnosis for network devices including routers, switches, VPN servers, and firewalls.				
Consults with campus departments to determine appropriate network hardware and software needs. Recommends appropriate network configurations to meet users' business needs and departmental standards.				
Analyzes network performance, implements performance tuning, and troubleshoots a variety of complex network problems areas, as needed. Assists other IT staff, faculty and researchers in performance tuning their applications and troubleshooting performance issues. Provides network performance statistics and reports.				
Analyzes, evaluates, tests and recommends new hardware, software, and communications products for network compatibility and applicability. Tests existing equipment before deployment.				
Works closely with industry experts and vendors to develop and deploy advanced networking services, implement effective applications of technology, and resolve complex vendor-specific problems. May entail submission of bug reports to vendors or working groups and follow-up to ensure issues are addressed.				
Creates and maintains detailed documentation with content based on current technologies, architecture, related network configuration, network mapping, processes, and service records. Participates in development, implementation and maintenance of policies, procedures, and associated training plans for network administration, usage, and disaster recovery. In collaboration with other engineers, recommend, optimize or establish new procedures. Share experience and subject matter expertise with other engineers through written and oral presentations.				
Helps establish operating, diagnostic, and repair procedures. Assists with network fault diagnosis as required. Participates in 24x7 on-call rotation. Follows University ITIL compliant processes during the execution of these duties.				
Collaborates with team members to establish project plans, schedules and priorities. Provides recommendations and requirements to establish final project plans, schedules, and necessary resources. Identifies resource requirements.				

JOB ACCOUNTABILITIES

	<i>% Time</i>	<i>Essential</i>	<i>Marginal</i>	<i>N/A</i>
Provides timely communications to stakeholders, technical staff and management regarding project status and completion of deliverables.				
Stays informed of new developments and technologies by reading journals and other pertinent publications, maintaining contact with vendors, and participating in professional organizations, meetings and seminars. Attends conferences or training courses as required.				
May provide technical and training assistance to less experienced network engineers, as assigned.				

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.