

USCUniversity of Southern California Job Description

JOB INFORMATION			
Job Code:	165598		
Job Title:	Senior Internet Engineer		
FLSA Status:	Exempt		
Supervisory:	Leads one or more employees performing similar work.		
Job Family:	Network Engineering		
Job Family Group:	Information Technology		
Management Level:	7 Individual Contributor		

JOB SUMMARY

Oversees, manages, coordinates and participates in developing complex inter-campus, inter-jurisdictional projects with mission-critical implications for the Los Nettos regional network, colocation services, and other projects associated with customers ext

JOB QUALIFICATIONS:

Education

Req	Pref	Degree	Field of Study	
Х		Bachelor's degree		
	Х	Bachelor's degree	Computer Science	Or
	Х	Bachelor's degree		

Additional Education

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

X Combined experience/education as substitute for minimum education

Work Experience

Req	Pref	Work Experience	Experience Level	
Х		5 years		
	Х	7 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

Strong technical knowledge and experience with Optical networking, LAN and WAN switching, IP routing, Linux Х server management and administration. Knowledge of data network and telecommunications protocols including but not limited to STP, OSPF, MPLS, BGP, IPv6, SIP, multicast, DNS and DHCP. Progressively responsible experience in related field.

Knowledge, Skills and Abilities

Pref	Functional Skills		
	Demonstrated strong written and oral communication skills with ability to work effectively with internal and external organizations.		
	Strong analytical abilities and reasoning to resolve uncommon problems.		
Х	Bachelor's degree in Computer Science or related field.		
Х	Network Engineering with certifications such as Cisco CCNP, Redhat RHCE.		
Х	Ability to write, modify, maintain, and document software tools in a high-level language.		
	X X		

Other Job Factors

JOB ACCOUNTABILITIES

	% Time	Essential	Marginal	N/A
Oversees, manages, coordinates and participates in developing complex inter- campus, inter-jurisdictional technical projects for the Los Nettos regional network, including colocation services, and other projects associated with customers external to the university.				
Manages highly complex projects that have high visibility and impact on Los Nettos member institutions and customers. Serves as a project leader/technical expert leading the deployment of cutting edge internet technologies, and utilizing creative problem solving methodologies and high-level technical expertise.				
Has responsibility for the design, implementation and troubleshooting of highly complex DWDM, switched, and IP network infrastructure spanning multiple Los Nettos member institutions, customers, IP backbone providers, and IP peering exchanges.				
Formulates and defines project scope and objectives. Determines need to change project scope and schedules. Manages project scope to ensure that changes are formalized through a documented change process.				
Establishes project plans, schedules and priorities. Identifies resource requirements. Manages delivery of complex deliverables by driving projects through various stages, including project initiation, planning, execution and closure. Provides status reports of project progress for management and stakeholders, as required.				
Collaborates with and provides advanced consultative services to constituents. Works closely with industry experts and vendors to provide advanced networking services, effective application of technology, and resolve complex problems.				
Coordinates project teams and identifies stakeholders. Communicates regularly and effectively with stakeholders, technical staff, senior management and customers regarding project goals, objectives, deliverables, plans and status throughout the project.				
Leads the evaluation of hardware and software products for compatibility, applicability, and feasibility for current use and future growth. Performs meticulous test plans and prototypes in the lab for peer review.				
Has responsibility for specifying, installing, and maintaining servers to provide various services, including but not limited to domain name system (DNS), Web, database, and network monitoring and graphing.				
Monitors and analyzes network performance, implements performance tuning measures, and troubleshoots highly complex and unique network problems. Develops custom tools using software, as needed.				
Ensures and provides engineering and network connectivity support to external projects and customers.				
Provides leadership guidance and direction to others, as needed. Reviews the work of others, as needed or requested. Provides technical and training assistance to less experienced internet engineers, as assigned. Mentors/trains peer engineers from Los Nettos community.				
Oversees network documentation and maintenance of equipment. Develops network and server security best practices. Devises or modifies procedures to solve complex problems.				

JOB ACCOUNTABILITIES % Time Essential Marginal N/A Stays informed of new developments, technologies and trends by reading journals and other pertinent publications, maintaining contact with vendors, and participating in professional organizations, meetings, and seminars. **Other Requirements** Essential: Emergency Response/Recovery Essential: Mandated Reporter A mandated reporter who in his or her professional In the event of an emergency, the employee holding this position is required to "report to capacity has knowledge of, or reasonably suspects

Campus Security Authority (CSA)	Essential:
duty" in accordance with the university's	a person who is under the age of 18 years, elderly
Emergency Operations Plan and/or the	or a dependent adult has been the victim of abuse
employee's department's emergency response	or neglect must report the suspected incident.
and/or recovery plans. Familiarity with those	The reporter must contact a designated agency
plans and regular training to implement those	immediately or as soon as practically possible by
plans is required. During or immediately	telephone or in writing within 36 hours. By virtue
following an emergency, the employee will be	of the associated job duties, this position qualifies
notified to assist in the emergency response	as a mandated reporter as required by state law
efforts, and mobilize other staff members if	and USC's policy at:
needed.	https://policy.usc.edu/mandated-reporters/

Campus Security Authority (CSA)

By virtue of the associated job duties, this position qualifies as a Campus Security Authority as required No by law and USC's policy at: https://dps.usc.edu/alerts/clery/

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

Date

Print Manager Name

Signature

This job description describes the general nature and level of work required by the position. It is not intended to be an allinclusive 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.