

Senior Network Engineer WiFi

JOB INFORMATION		
Job Code:	167584	
Job Title:	Senior Network Engineer WiFi (ITS)	
FLSA Status:	Exempt	
Supervisory:		
Job Family:	Network Administration	
Job Family Group:	Information Technology	
Management Level:	7 Individual Contributor	

JOB SUMMARY

Manages the design, implementation, optimization, administration, and technical documentation of all wireless services and systems. Leads the resolution of complex technical issues in a timely manner, delivering best-in-class wireless service support across university. Manages and provides day-to-day network engineering and technical support for wireless network infrastructure. Ensures systems operate at peak efficiency with little to no downtime. Ensures that all networking activities are aligned to industry best practices as well as ITS and university policies, processes, and procedures. Provides technical and training assistance to other ITS teams. Demonstrates ITS values in action.

JOB QUALIFICATIONS:

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

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	
Χ		5 years		
	Χ	8 years		

Additional Work Experience

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

X Combined experience/education as substitute for minimum work experience

Knowledge, Skills and Abilities

Req	Pref	Functional Skills
Χ		Extensive experience with 802.11a/b/g/n/ac and RF design and WLAN fundamentals.
Χ		Extensive experience managing and documenting wireless networks, overlaying APs onto CAD (or similar) blueprints for heat mapping.
Χ		Extensive experience designing, deploying, and troubleshooting IP and wireless networks.
Χ		Demonstrated knowledge of LAN/WAN and network protocols, monitoring tools, and commands, ensuring quick issue resolutions.
Χ		Extensive experience troubleshooting large-scale wireless networks, including client experience tests and wireless packet analyses.
Χ		Extensive experience designing and operating large-scale wireless networks, including controller clustering, failover methods and caveats, group management, AP modes of operation, patching, RF management, and similar tasks.
X		Extensive experience with wireless optimizations, including AP placement, achieving ideal signal levels, optimized roaming, spectrum selection, channel tuning, cell optimization, QoS, power AP tunneling versus local switching, and more.
Χ		Excellent written and oral communication skills, with demonstrated discipline recognizing and handling confidential and sensitive information.
Χ		Experience managing support cases with external technology vendors, and performing active and passive wireless site surveys.
Χ		Proven ability to develop positive working relationships and strong rapport with team members.
	Χ	Experience in IT, network engineering, and/or wireless networks.
	Χ	Experience with Aruba Wireless and ClearPass NAC, and solid knowledge of server and virtual technologies.

Certifications

Req Pref	Select Certifications	Enter Additional Certifications
X		CWNA, ACMA, ACMP, ACMX and/or CWNE certifications, or similar.

Other Job Factors

JOB ACCOUNTABILITIES

	% Time	Essential	Marginal	N/A
Leads and drives collaboration with key stakeholders within ITS and other university departments to deliver highly reliable network services. Demonstrates excellent creation and maintenance of detailed written documentation, and openly shares experiences and subject-matter expertise with co-workers through written and oral presentations. Provides timely communications to stakeholders, technical staff, and management as required.				
Drives the development, implementation, and maintenance of policies, procedures, and associated training plans for wireless network administration, operations, and disaster recovery. Leads project planning, scheduling, and the establishment of priorities. Oversees and supports network automation development to improve network efficiency.				
Effectively engages appropriate customers to resolve wireless network issues. Consults with university departments to determine device suitability and capability for campus network connections, in accordance with approved network and security policies.				
Maintains currency with new and emerging technologies and approaches, leveraging the latest industry knowledge to facilitate opportunities for innovation and continuous improvement. Create opportunities for the wireless network team to pursue information on new wireless network engineering developments, talking with vendors, reading journals and other pertinent publications, and participating in professional organizations, meetings, conferences, seminars and training courses.				
Oversees and conducts wireless site surveys, providing recommendations for access point placement, and analyzing signal-to-noise ratio and other potential interferences. Designs and manages the implementation of wireless network devices in accordance with network and security requirements. Reviews wireless LAN RF design, and makes recommendations for improvements. Oversees on-site				

JOB ACC	OUNTABILITIES						
				% Time	Essential	Marginal	N/A
verification fixes.	of implementations to identify or anticipate probl	ems, and imp	lement				
identifications of solutions. A resolve netwimplement of	d effectively participates in the aggregation of perton of root causes to network issues, and recommen nalyzes network data and statistics to both proactivork issues. Partners with industry experts and vereffective technology applications. Resolves comples nd submits bug reports to vendors.	ids realistic ively and read idors to find a	ctively and				
transparence maintains co and leaders	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 groups of peers, team members, and leadership. Actively embodies ITS values and behaviors (e.g., accountability, ethics, best-in-class customer service).						
Collaborates with team members and management, implementing effective solutions to support the network engineering team's vision. Maintains currency with technology, standards, and best practices. Supports process improvement efforts within the team and across the ITS organization.							
Other Re	quirements						
Essential:	Emergency Response/Recovery	Essential:			Mandated I	Reporter	
	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.		capacita a perso or a de or neglo The repimmeditelepho of the a as a ma and USC	mandated reporter who in his or her professional apacity has knowledge of, or reasonably suspects person who is under the age of 18 years, elderly radependent adult has been the victim of abuser neglect must report the suspected incident. The reporter must contact a designated agency numediately or as soon as practically possible by elephone or in writing within 36 hours. By virtue of the associated job duties, this position qualifies a mandated reporter as required by state lawing use.			
Campus Se	curity Authority (CSA)					Es	sential:
	the associated job duties, this position qualifies as USC's policy at: https://dps.usc.edu/alerts/clery/		ecurity A	uthority	as required	l 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

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.