

JOB INFORMATION				
Job Code:	167163			
Job Title:	VLSI Design Lab Engineer			
FLSA Status:	Non-Exempt			
Supervisory:	May oversee student, temporary and/or resource workers.			
Job Family:	VSLI Design			
Job Family Group:	Information Technology			
Management Level:	7 Individual Contributor			

JOB SUMMARY

Supports project leader and other researchers in the design and implementation of research projects for prototype VLSI chips and board-level electronic systems.

JOB QUALIFICATIONS:

Education

Req	Pref	Degree	Field of Study	
Χ		Bachelor's degree		
	Χ	Master'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	
Χ		3 years		
	Χ	7 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		VLSI-related graduate coursework.		
Χ		Knowledge of VLSI design layout practices and CAD tools for all facets of circuit design and simulation.		
Χ		Experience with UNIX and/or PC operating systems and application software.		
Χ		Knowledge of electronic test equipment such as oscilloscopes, logic analyzers, and pulse generators.		

Other Job Factors

JOB ACC	OUNTABILITIES						
				% Time	Essential	Marginal	N/A
Creates layout for VLSI CMOS circuits using CAD software. Simulates VLSI designs using switch-level circuit simulation programs.							
Plans, designs, and implements wire-wrap and printed-circuit boards for system-level prototyping efforts. Debugs and characterizes performance of board-level designs.							
creates or a	d maintains sophisticated laboratory/scientific equicated dapts equipment and procedures to meet specific equisition or enhancement of specialized equipments.	research nee	ds.				
Contributes procedures.	to the development and implementation of labora	tory policies	and				
Writes repor	ts on experimental and developmental results.						
Reviews pro	gress and effectively reports project status to proj	ject leader.					
Other Red	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.		capacitia person or a desor neglia. The resimmed telepholof the as a mand US	ndated reporter who in his or her profession city has knowledge of, or reasonably suspects on who is under the age of 18 years, elder dependent adult has been the victim of abuing lect must report the suspected incident. Reporter must contact a designated agency ediately or as soon as practically possible by the hone or in writing within 36 hours. By virtue associated job duties, this position qualifies associated reporter as required by state law ISC's policy at:			
Campus Sec	curity Authority (CSA)					Es	ssential:
	the associated job duties, this position qualifies a JSC's policy at: https://dps.usc.edu/alerts/clery/	s a Campus Se	ecurity A	Authority	as required	l No	
The above sijob. They ar	LEDGMENTS tatements reflect the essential and non-essential to the notintended to be a complete statement of all and that I may be asked to perform other during the statement of the during that I may be asked to perform other during the statement of all and the statement of	work requirer	ments o	r duties t	hat may be	required of	f the
under federa	ity of Southern California is an Equal Opportunity I al, state, or local law, regulation, or ordinance or ualifications and business need.						
description a not specifica understand	ge receipt of this job description and its associated and job requirements and agree to abide by their cally stated herein. I understand that I will be expethat, if I have any questions about the essential fur available to discuss them with me.	contents. I re cted to adjus	alize th t to pot	at duties ential flu	may be req ctuations in	juested of r work volui	ne that are me. I
Print Employ	vee 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,

Signature

Print Manager Name

duties, responsibilities or working conditions of the job. The job description is subject to change with or without notice, and

Date

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.