



# VLSI Design Engineer Senior - MOSIS

## Job Description

### JOB INFORMATION

Job Code:	167155
Job Title:	VLSI Design Engineer Senior - MOSIS
FLSA Status:	Exempt
Supervisory:	Leads employees performing similar work on a project basis.; May oversee student, temporary and/or resource workers.
Job Family:	VSLI Design
Job Family Group:	Information Technology
Management Level:	7 Individual Contributor

### JOB SUMMARY

Develops methodologies for the design and behavior determination of complex electronic circuits utilized in advanced Very Large Systems Integration (VLSI) processes through the Metal Oxide Semiconductor Implementation Service (MOSIS) at ISI.

### JOB QUALIFICATIONS:

#### Education

Req	Pref	Degree	Field of Study
X		Master's degree	
	X	Master's degree	

#### 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		5 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 in developing methodologies for the design and behavior determination of complex electronic circuits utilized in advance Very Large Systems Integration.
	X	Lead experience with other engineers.

#### Other Job Factors

- May require periodic weekend or evening work.

## JOB ACCOUNTABILITIES

	<i>% Time</i>	<i>Essential</i>	<i>Marginal</i>	<i>N/A</i>
Designs complex electronic systems using state-of-the-art methodologies and fabrication processes. Designs specifications of systems in abstract form and translates into optimum design approach.				
Evaluates, designs and establishes project goals and sets priorities. Establishes, assigns and approves project schedules.				
Provides leadership, guidance and direction to lower level staff and student workers as required. Coordinates workload and sets priorities and timelines.				
Establishes and maintains appropriate network of professional contacts. Maintains currency with professional organizations and publications.				
Attends and participates in meetings, conferences and seminars as requested or required. Represents university and/or unit, as assigned or appropriate.				

## 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: <a href="https://policy.usc.edu/mandated-reporters/">https://policy.usc.edu/mandated-reporters/</a>
<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: <a href="https://dps.usc.edu/alerts/clery/">https://dps.usc.edu/alerts/clery/</a>			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.