



JOB INFORMATION

<i>Job Code:</i>	098026
<i>Job Title:</i>	Research Computer Scientist
<i>FLSA Status:</i>	Exempt
<i>Supervisory:</i>	Supervises employees and/or student workers.
<i>Job Family:</i>	Computer Research
<i>Job Family Group:</i>	Information Technology
<i>Management Level:</i>	7 Individual Contributor

JOB SUMMARY

Conceptualizes, designs, conducts and drives own highly specialized, technical research projects, while supporting and guiding those of collaborating researchers and students. Plans and generates research ideas and solutions to complex computer science and engineering problems, provides research direction and/or support on problems of a diverse scope, and plans and executes specialized research alone or in collaboration with others. Analyzes and provides interpretation of research data, writes scholarly articles for publication, and maintains expertise in specialized discipline(s). Must be able to supervise PhD students' thesis research.

JOB QUALIFICATIONS:

Education

<i>Req</i>	<i>Pref</i>	<i>Degree</i>	<i>Field of Study</i>
X		Doctorate	

Additional Education

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

Combined experience/education as substitute for minimum education

Work Experience

<i>Req</i>	<i>Pref</i>	<i>Work Experience</i>	<i>Experience Level</i>
X		<1 year	
	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

<i>Req</i>	<i>Pref</i>	<i>Functional Skills</i>
X		Demonstrated record of outstanding research contributions and experience.
X		Proven technical proficiency, exceptional creativity, successful collaboration with others, and independent thought.
X		Strong managerial skills.

Knowledge, Skills and Abilities

Req	Pref	Functional Skills
X		Demonstrated reputation as an emerging leader in field with sustained performance and accomplishment.
X		Demonstrated ability to conceptualize research directions, exert technical leadership, communicate technical ideas, coordinate individual contributions to a research program, and present research plans and results in a manner that will elicit favorable funding actions.
	X	Nationally recognized reputation for excellence in area of expertise.

Other Job Factors

JOB ACCOUNTABILITIES

	% Time	Essential	Marginal	N/A
Serves as key research scientist and authority in specialized field(s) of expertise. Demonstrates thought leadership and independence in conceptualizing, planning, designing, conducting and driving complex research projects. Exercises significant judgment in determining scientific objectives and approaches. Plans and pursues long-term goals and objectives independently or in collaboration with others, as appropriate.				
Identifies, researches and evaluates data sources, background information and technology related to specialized area(s). Generates research ideas and designs algorithms, software and/or hardware. Contributes state-of-the-art technology and theories, and applies scientific principles and concepts in the planning, coordinating and execution of research objectives.				
Solves a wide range of complex research problems effectively, creating or modifying techniques to obtain solutions. Selects approaches for designing experiments whose results are often reviewed by research sponsors, and develops documentation to determine whether results are of sufficient impact to warrant publication.				
Writes scientific articles for publication, independently or in teams, and technical reports and papers that demonstrate thought leadership and innovative thinking. Makes presentations at conferences, participates in workshops and collaborates in specific research areas. Represents the university/institute, as appropriate, and networks with professional counterparts inside and outside USC.				
Participates in supervision of the research of PhD students, and screens, interviews and evaluates applicants for research positions. May schedule and assign work, and oversee quality by training, reviewing or critiquing work. Provides leadership, direction and guidance to staff, graduate research assistants and/or student workers in areas of expertise and regarding protocols, procedures, policies and equipment, as needed.				
Stays abreast of new developments and technologies by reading technical journals and other pertinent publications, maintaining contact with vendors, and participating in professional organizations, meetings and seminars.				
Contributes ideas to and participates in the writing of proposals to agencies and organizations that fund sponsored research. May participate in proposal review panels organized by research-funding organizations.				
Maintains awareness and knowledge of current changes within legal, regulatory, and technology environments which may affect operations. Ensures senior management and staff are informed of any changes and updates in a timely manner. Establishes and maintains appropriate network of professional contacts. Maintains membership in appropriate professional organizations and publications. Attends meetings, seminars and conferences and maintains continuity of any required or desirable certifications, if applicable.				

Other Requirements

Essential:	Emergency Response/Recovery	Essential:	Mandated 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		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.

Other Requirements

<i>Essential:</i>	<i>Emergency Response/Recovery</i>	<i>Essential:</i>	<i>Mandated Reporter</i>
	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.		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.