UNIVERSITY OF SOUTHERN CALIFORNIA

Computer Scientist

Job Code: 167207

Grade: TM
OT Eligible: No
Comp Approval: 10/1/2008

JOB SUMMARY:
Generates research ideas and solutions to complex computer science problems. Provides research support on problems of diverse scope and executes research projects in collaboration with others.

JOB ACCOUNTABILITIES:
*E/M/NA % TIME

______  ______ Applies computer science principles and concepts in planning, coordinating and executing research objectives. Contributes to state-of-the-art technology and theories. Solves a wide range of research problems. Creates or modifies methods and techniques for obtaining solutions.

______  ______ Writes articles for publication.

______  ______ Interacts with peers. Makes presentations at conferences; participates in workshops and collaborates in specific areas of research.

Performs other related duties as assigned or requested. The university reserves the right to add or change duties at any time.

*Select E (ESSENTIAL), M (MARGINAL) or NA (NON-APPLICABLE) to denote importance of each job function to position.

EMERGENCY RESPONSE/RECOVERY:

Essential: ☐ No
☐ Yes  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.

JOB QUALIFICATIONS:

Minimum Education:
Master's degree
Combined experience/education as substitute for minimum education

Minimum Experience:
3 years

Minimum Field of Expertise:
Knowledge of research processes and computer science.

Preferred Education:
Doctorate

**Preferred Experience:**

5 years

**Preferred Field of Expertise:**

Specialized knowledge in some area of computer science such as internet technologies, databases, multi processing, security or natural languages. Presentations at conferences/written journal articles.

**Skills: Other:**

Analysis
Assessment/evaluation
Communication -- written and oral skills
Conceptualization and design
Interpretation of policies/analyses/trends/etc.
Knowledge of applicable laws/policies/principles/etc.
Networking
Organization
Planning
Problem identification and resolution
Project management
Public speaking/presentations
Research
Scheduling

**Skilled in:**

Applications/systems development methodologies
Database programming
Internet standards and protocols
Mathematics
Operating systems
Programming languages
Scientific programming
Web scripting and programming languages

**Skills: Machine/Equipment:**

Computer network (department or school)
Computer network (university)
Computer peripheral equipment
Fax
Personal computer
Personal mobile communication devices
Photocopier

**Supervises: Level:**

May oversee student and/or temporary workers.

**Comments:**
The differences in the level for Computer Scientists is based on the incumbent's 1) level of education and/or experience; 2) extent of contributions to literature and conferences; 3) degree of independence in conducting research.

SIGNATURES:

Employee: ________________________________ Date: ________________________________

Supervisor: ______________________________ Date: ________________________________

The above statements are intended to describe the general nature and level of work being performed. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified.

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