UNIVERSITY OF SOUTHERN CALIFORNIA

Computer Scientist, Sr

Job Code: 199407

Grade: 00
OT Eligible: No
Comp Approval: 10/10/2008

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

JOB ACCOUNTABILITIES:

*E/M/NA % TIME

--- ------ Generates research ideas. Applies computer science principles and concepts in the planning, coordinating, and executing of research objectives. Contributes state-of-the-art technology and theories.

--- ------ Solves a wide-range of research problems in creative and effective ways. Selects methods and techniques for obtaining solutions.

--- ------ Writes articles for publication.

--- ------ Makes presentations at conferences, participates in workshops, and collaborates in specific areas of research.

--- ------ Stays informed of new developments and technologies by reading journals and other pertinent publications, maintaining contact with vendors, and participating in professional organizations, meetings and seminars.

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:
Doctorate
Combined experience/education as substitute for minimum education

Minimum Experience:
5 years
Minimum Field of Expertise:

Knowledge of research processes and computer science. Ability to take specific research problems, apply computer science principles, and derive solutions. May possess a specialized knowledge in one area such as linguistics, psychology, or physics, and be able to bridge the gap between that specialized knowledge and the physical constraints of machine architecture. Ability to interact with other project members in a positive and constructive manner to reach solutions to research problems.

Preferred Education:

Doctorate

Preferred Field of Expertise:

Nationally recognized reputation for excellence in area of expertise.

Skills: Other:

Analysis
Assessment/evaluation
Communication -- written and oral skills
Conceptualization and design
Consulting
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.

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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