San José State University Research Foundation

<table>
<thead>
<tr>
<th>Position:</th>
<th>Research Associate (HCI)</th>
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<td>DEPARTMENT:</td>
<td>Psychology</td>
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<tr>
<td>IMMEDIATE SUPERVISOR:</td>
<td>Project Director, NASA</td>
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<tr>
<td>POSTING DATE:</td>
<td>October 3, 2016</td>
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<tr>
<td>CLOSING DATE:</td>
<td>Open Until Filled</td>
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| SALARY:           | Negotiable based on experience  
                    Full time  
                    Benefited |
| EXEMPT STATUS:    | Exempt Level             |

GENERAL NATURE OF POSITION:
The Psychology Department at San Jose State University is involved in collaborative research with civil service scientists from the Human-Computer Interaction (HCI) Research group of the Human Systems Integration Division at the NASA Ames Research Center in Mountain View, CA. The research is centered on the design, development, and testing of next-generation mission ground-systems support tools. We seek a Project Associate to design and develop such tools to be used by NASA’s Exploration Systems Mission Directorate in future space launch systems (including launch vehicle, crew exploration vehicle, ground components). The individual will also be responsible for designing and developing robotic planning tools for the Mars Science Laboratory (MSLICE). Finally, the individual will coordinate software development of human performance modeling tools for risk-management and problem- or anomaly-solving issues.

ESSENTIAL DUTIES & RESPONSIBILITIES:
1. Collaborate with designers on the day-to-day software development effort and maintenance operations of the production instances of the Mission Assurance Systems.
2. Develop new core features for production applications.
4. Develop prototype code to support demonstrations and advanced concepts.
5. Design and develop integration layer between core applications and external systems to transfer data, link information/records, and send notification.
6. Participate in application architecture design.
7. Coordinate preparation of reports on research findings and participate in presenting work at meetings and conferences.
INTERPERSONAL CONTACTS:
Reports to the Project Director. Interacts with NASA Ames civil service and Research Foundation staff, including student assistants, on a daily basis.

QUALIFICATIONS:

1) Education and Experience
   • Bachelor’s degree in Computer Science or related discipline.
   • A minimum of 1-3 years’ experience in software design, JavaScript (React.js in particular), Matlab, CSS, HTML.

2) Knowledge, Skills, Abilities required
   • Ability to develop and deploy database driven web applications in a production environment.
   • Skilled in using JavaScript (React.js in particular), Matlab, CSS, HTML.
   • Excellent software design and evaluation skills.
   • General knowledge of mission control and crew vehicle procedures preferred.
   • Ability to organize and analyze data both in reports and in web-based environments.
   • Ability to speak and write effectively.
   • Ability to integrate a culturally- and organizationally-diverse research and development team.

3) Physical requirements
   • Must be willing to travel domestically and internationally. Approximately four trips per year is anticipated, including international travel.
   • This position’s location is the NASA Ames Research Center. Therefore, this employee must meet security qualifications for entrance to the Center.
   • Candidate will be a U.S. citizen or Permanent Resident.

4) Complexity of Duties
   Exercise independent judgment in the management and completion of a diverse set of tasks.

SUPERVISORY RESPONSIBILITIES: None, though may be called upon for advice and direction by others.

APPLICATION PROCEDURE
To apply for this position, you may submit a letter of interest and a resume or an application. An application and other information, including the job description, may be obtained from the Research Foundation through its web site at http://www.sjsu.edu/researchfoundation/open/index.html. You may also obtain information in person by visiting the Research Foundation, located at 210 North 4th Street, 4th Floor, San Jose, CA (corner of St. James and North 4th Streets). A formal application for
employment will be required of all candidates who are selected for a personal interview. Please address your letter of interest and resume or application directly to:

San Jose State University Research Foundation  
Attn: HR/Job Code ProjAssocHCI  
210 North 4th Street  
San Jose, CA 95112  
E-mail: foundation-jobs@sjsu.edu

Research Foundation employment is separate and distinct from San Jose State University or State of California employment. Research Foundation employees are not employees of either SJSU or of the state of California.

The San Jose State University Research Foundation (SJSURF) is a non-profit auxiliary of San Jose State University. SJSURF is totally self-supported. The majority of the organization’s funding comes from the federal government, and other public and private entities. With annual revenues totaling over $65 million, programs managed through SJSURF cover a rich diversity of applied research, public services, and educational related activities.

SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION

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The SJSURF has implemented California State University Executive Order 1083 (http://www.calstate.edu/EO/EO-1083.pdf). By policy, all SJSURF employees are mandated reporters for suspected child abuse or neglect and are expected to undergo formal training in accordance with the directives of the Executive Order.

The SJSURF has also implemented California State University Policy Memorandum HR 2015 – 08 (http://www.calstate.edu/HRAdm/pdf2015/HR2015-08.pdf).

A background check (including a criminal records check) must be completed satisfactorily before any candidate can be offered a position with the SJSURF. Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current SJSURF employees who apply for the position.