San José State University Research Foundation

**Position:** Research Associate (Fullstack Developer)

| **DEPARTMENT:** | Research will be done under the auspices of the Psychology Department at San José State University |
| **IMMEDIATE SUPERVISOR:** | PROJECT DIRECTOR |
| **POSTED:** | 10/8/2019 |
| **CLOSING DATE:** | Open Until Filled |
| **SALARY:** | Negotiable/ DOQ Full-Time |
| **BENEFITS:** | Exceptional benefits for employees and eligible dependents: Company subsidized CalPERS medical selections, 3 PPO's and 6 HMO's; company paid dental and vision insurance for employees and eligible dependents; Life, AD&D, and LTD coverage; paid federal and state holidays; a 403 (b) retirement option with a 7% employer retirement contribution following 1 year of benefited employment, with immediate vesting; vacation accruals and a stand-alone sick leave hours accumulation; and a subsidized post-retirement medical insurance plan for eligible employees. |
| **STATUS:** | Exempt |

**GENERAL NATURE OF POSITION:**

Do you want to help support NASA’s long distance, long duration spaceflight missions? We are the Human Computer Interaction (HCI) Group, a team of researchers, designers, and developers working with NASA to advance the state-of-the-art of technologies for astronauts and flight controllers that support spaceflight mission operations. We focus on developing software deployed in space analog field sites and real operational settings. Specifically, we are responsible for scheduling software to manage the complex problem of resource-constrained planning for astronauts, spacecrafts, and robots. Our software is currently used to plan and schedule rover activities on Mars as well as astronaut and payload activities onboard the International Space Station. San José State University is involved in collaborative research with civil service scientists in the Human Systems Integration Division at NASA Ames Research Center in Mountain View, CA.

We seek a **Research Associate (Fullstack Developer)** to develop such software tools that will enable spaceflight exploration. You will work with other developers, designers, and QA team members to create a
critical software system used across NASA. You will be part of creating and developing a variety of software projects from the planning through the implementation stages.

Our work environment is very open, collaborative and welcoming; we are a diverse and tight-knit team that enjoys off-site team building events and activities. We believe that fostering a comfortable workplace for everyone is important! Our team values a healthy approach to our work, from providing adjustable desks to maintaining a balanced work-life schedule. You will contribute to our wide diversity of skills and incorporate new ideas into our environment. You will work with people across NASA, hear about upcoming missions and how we help support them.

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**ESSENTIAL DUTIES & RESPONSIBILITIES:**

1. Develop new features for production applications, both server and client side in JavaScript. Follow design specifications to build features integrated into an existing code base. Identify and fix bugs in existing code base.
2. Test and review other developers’ code submissions. Manual testing with team during release cycles.
3. Provide technical support for various, ongoing deployments. Collaborate with team and external stakeholders to efficiently maintain deployment operations.
5. Collaborate across the team to continuously suggest and incorporate process improvements and industry standard applications where appropriate.
6. Other duties as assigned.

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**INTERPERSONAL CONTACTS:**

- Reports to the Project Director.
- Interacts with NASA Ames civil service and Foundation research staff, including student assistants, on a daily basis.

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**QUALIFICATIONS:**

1) **Education and Experience**

   a) BA/BS in Computer Science or related discipline is required. If bachelor degree is not in related discipline, at least two years of equivalent experience as a software developer is required.
   b) Proficiency in JavaScript is required.
   c) One to two years of work experience as a software developer is preferred. Work experience that is preferred includes developing software with Backbone and Node.js, working with teams (particularly design and UX teams), and working with Agile Development Workflow.

2) **Knowledge, Skills and Abilities required**

   a) Familiarity with version control systems (e.g., Git, GitHub) and project management software (e.g., JIRA).
   b) Ability to learn components of our Technical Stack:
      i. Server: Node.js, nginx, Redis db, sockjs, Webpack, express
      ii. Client: HTML, CSS, JS, jQuery, Backbone, d3, svg, Underscore, Bootstrap
      iii. Unit Testing: Jasmine, Robot Framework
   c) Ability to acquire new technical skills, such as new JavaScript frameworks, AWS server configuration, performance benchmarking, etc.
   d) Ability to speak and write effectively.
   e) Ability to integrate in a culturally and organizationally diverse team
3) Physical Requirements:
   a) Work is performed in an office setting. Operation of basic office equipment and programs is essential.
   b) Must be able to operate a PC including mouse and keyboard.
   c) Ability to travel domestically and internationally may be required. Requires occasional travel to different NASA centers and analog field sites, which may be remote.
   d) Located at the NASA Ames Research Center. Therefore, this employee must meet security qualifications for entrance to the Center. Location is equipped for full accessibility.
   e) Candidate will be a U.S. citizen or Permanent Resident.

4) Complexity of Duties
   a) Must be able to exercise independent judgment in the management and completion of a diverse set of concurrent tasks.
   b) Works with minimal direct supervision on all assigned projects.

5) Benefits:
The comprehensive benefit package includes:
   a) Ten Health Insurance Plans to choose from
   b) Free dental and vision for employee and family
   c) Paid Federal & State Holidays
   d) Retirement Plan: 403 (b) employee contribution plan component and a 403 (b) employer contribution component
   e) Vacation and separate sick plans
   f) Employee Discounts
   g) Paid Training and Conferences
   h) Increases based on merit (performance)

This position description intends to describe the general nature and level of work being performed by people assigned to this job. It is not intended to include all duties and responsibilities. The order in which duties and responsibilities are listed is not significant.

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SUPERVISORY RESPONSIBILITIES:

None.

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APPLICATION PROCEDURE

To apply for this position, an applicant is required to submit a formal application for employment, as well as a resume and a letter of interest. The applicant may do this via e-mail or by regular mail. The formal employment application is located at http://www.sjsu.edu/researchfoundation/docs/Employment%20Application.pdf

The employment application may also be obtained from the Research Foundation through its web site at http://www.sjsu.edu/researchfoundation/open/index.html

An applicant may also apply 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). In person applicants will be provided a formal employment application to fill out. Please address your formal application, your resume and your letter of interest directly to:

San Jose State University Research Foundation
Attn: HR/Job Code RA FSD

Job Code ________

Page 3 of 4
The Research Foundation provides excellent benefits package to benefited employees. Please visit http://www.sjsu.edu/researchfoundation/humanresources/benefits/index.html to get more details.

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.

**Reasonable Accommodation:**
The San Jose State Research Foundation is committed to providing access, equal opportunity and reasonable accommodation for individuals with physical or mental disabilities in the employment, recruitment, examination, hiring and interviewing processes. If you are a job seeker with a physical or mental disability and require a reasonable accommodation to search, apply, or interview for a job opening or otherwise need a reasonable accommodation during the application and hiring process, please contact us at foundation-jobs@sjsu.edu. In the email message, please indicate your full name, phone number and the type of assistance required. You must not reveal the underlying medical reason for your needed reasonable accommodation or otherwise disclose confidential medical information. You may also call (408) 924-1400 from 8:00am to 5:00pm (PST), Monday through Friday, excluding holidays, to get assistance.

The San Jose State University Research Foundation (SJSURF) is a 501 (c) (3), 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 from 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 is an Equal Opportunity Employer and does not discriminate on the basis of race, color, creed, gender, religion, marital status, registered domestic partner status, age, national origin, ancestry, physical or mental disability, medical condition, sex, genetic information, sexual orientation, military and veteran status or any other consideration made unlawful by federal, state, or local laws. It also prohibits unlawful discrimination based on the perception that anyone has any of those characteristics, or is associated with a person who has or is perceived as having any of those characteristics.

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.