Do you want to help support NASA’s missions, but don’t want to go through astronaut training camp? Do you like making a difference in the world and help progress the vision of NASA? We are a group of developers and designers working in contract with NASA under the Human Computer Interaction (HCI) Research Group to make Mission Assurance Software. We work for the San Jose State University Research Foundation in a partnership with NASA through grant funding. The research is centered on the development, design and testing of next-generation mission ground-systems for NASA’s space explorations missions. You will work with people across NASA, hear about upcoming missions and how we help support them.

The position of Research Associate (Development Operations) focuses on keeping our platform up at all times for critical space missions. This position will focus on all aspects of our high availability architecture at a support level. In addition, you will focus on various Linux server-side issues, like troubleshooting Apache, performance tuning, and our platform stack. Your experience will guide us to the next level of high-availability and performance as we grow as a team and provide our HCI research-based software to NASA. With expertise in

<table>
<thead>
<tr>
<th>Position:</th>
<th>Research Associate (Development Operations)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT:</td>
<td>Research will be done under the auspices of the Psychology department at San Jose State University</td>
</tr>
<tr>
<td>IMMEDIATE SUPERVISOR:</td>
<td>Project Director</td>
</tr>
<tr>
<td>POSTING DATE:</td>
<td>10/17/2019</td>
</tr>
<tr>
<td>CLOSING DATE:</td>
<td>Open Until Filled</td>
</tr>
<tr>
<td>SALARY:</td>
<td>Negotiable DOQ/E Full Time</td>
</tr>
<tr>
<td>BENEFITS:</td>
<td>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&amp;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.</td>
</tr>
<tr>
<td>EXEMPT STATUS:</td>
<td>Exempt (Salary)</td>
</tr>
</tbody>
</table>

GENERAL NATURE OF POSITION:

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critical environments, you will advise us on ways to accomplish our production goals and give our users a seamless experience.

Our work environment is very open, collaborative and welcoming to others. We are a diverse and tight-knit team who enjoys off-site team building events and activities. We believe that having a comfortable environment for everyone is important! Our team values a healthy approach to the workplace, 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.

ESSENTIAL DUTIES & RESPONSIBILITIES:

a) Contribute to the design and implementation of a CI/CD pipeline (Git, Jenkins, etc).
b) Write scripts to automate repetitive development/testing/deployment tasks.
c) Troubleshoot and monitor production systems to ensure the highest uptimes are maintained.
d) Support and improve upon existing high-availability architecture solutions.
e) Maintain health and availability of our infrastructure (both development and production).
f) Identify trends and insights via logging data analytics (e.g. in Splunk).
g) Other duties as assigned.

INTERPERSONAL CONTACTS:
Reports to the NASA Project Director. Interacts with NASA Ames civil service and Foundation research staff, including student assistants, on a daily basis. Works daily with the on-site design, QA, and development teams at NASA Ames.

QUALIFICATIONS:

1) Education and Experience:
   - A Bachelor’s degree in related field such as Computer Science required. At least 3 years of relevant experience may substitute for a degree.
   - At least 3 years of experience with scripting languages for task automation (Perl, Python, etc).
   - At least 3 years of experience in troubleshooting and monitoring complex IT infrastructure.
   - At least 3 years of direct experience in a sysadmin role (Linux preferred).

2) Knowledge, Skills, Abilities required:

   **Required**
   a) Ability to logically troubleshoot through problems to identify the root cause in time-sensitive situations.
   b) A positive attitude and willingness to help others and stay on top of new technologies is highly valued.
   c) Ability to problem solve with a team and develop creative solutions based on your experiences.
   d) Ability to write and test scripts to automate complex system behaviors.

   **Desired:**
   a) Knowledge of one cloud platform (e.g. AWS).
   b) Knowledge of Linux-based operating systems like RedHat Enterprise (RHEL7).
   c) Technical writing, including the ability to document processes and create diagrams for
presentation of ideas.

d) Work well in a team environment but can also work well without extra oversight: self-driven.
e) Familiarity with DNS load-balancers such as F5 BIGIPs (GTM).
f) Security-minded and exposure to standards organizations like NIST.
g) Exposure to Splunk and other analytic tools.
h) Familiarity with full stack environment for support and troubleshooting of server-side Apache, Node, or database issues.
i) Knowledge of configuration management and deployment tools (Ansible, Puppet, etc).

3) **Complexity of Duties:**
   - Exercises independent judgment in the management and completion of a diverse set of tasks.

4) **Physical Requirements**
   - Occasional travel to other NASA sites may be required.
   - Flexibility to work altered schedule to correspond to major deployment times and occasional after-work time if critical outages occur. (This is very minimal/infrequent).
   - Located at NASA Ames Research Center. Therefore, the employee must meet security qualifications for entrance to the Center, including an Agency background check.
   - Employee must be a US citizen or Permanent Resident.
   - The location is equipped for full accessibility.
   - This is a local position on-site at Moffett Field and not a remote position

5) **BENEFITS:**
   The comprehensive benefit package includes:
   a) Nine 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)

**SUPERVISORY RESPONSIBILITIES:**

None, although may be called upon for advice and direction by others.

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.

**APPLICATION PROCEDURE**

To apply for this position, an applicant must submit a formal application for employment, as well as a resume and a cover letter. 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](http://www.sjsu.edu/researchfoundation/docs/Employment%20Application.pdf)
It may also be obtained from the Research Foundation through its website 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). Please address your formal application, your resume and your letter of interest directly to:

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

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 Research Foundation provides excellent benefits package to benefited employees. Please visit http://www.sjsu.edu/researchfoundation/humanresources/healthbenefits/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.

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 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.