Position: SENIOR RESEARCH DEVELOPER -- AUTOMATED TEST ENGINEER

DEPARTMENT: Psychology Department, San Jose State University and SJSU Research Foundation

IMMEDIATE SUPERVISOR: Project Director, NASA

POSTING DATE: December 7, 2017

CLOSING DATE: Posted Until Filled

SALARY: Negotiable, DOQ/E
Full time
Benefited

EXEMPT STATUS: Exempt

GENERAL NATURE OF POSITION:

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 want to help progress the vision of NASA? We are a group of developers, designers and testers working in contract with NASA under the Human Computer Interaction (HCI) Research Group to make Mission Assurance Software. The research is centered on the development, design and testing of next-generation mission ground-systems for NASA’s space explorations missions. We work for the San Jose State University Research Foundation in a partnership with NASA through grant funding.

The position of Automated Test Engineer is a blend of Software Development, Automation Architecture, and Quality Assurance that will complement our established manual testing process. Your experience designing and building automated testing frameworks will allow us to establish a new environment of automated tests that will increase the efficiency of regression testing on our 30+ websites. Your commitment to maintaining and executing these tests will instill team confidence in the fidelity of our product, allowing us to provide our users with more frequent and responsive updates.

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.

ESSENTIAL DUTIES & RESPONSIBILITIES:
1) Create, improve, and maintain automation test framework.
2) Set up and maintain server-side execution of automated tests via Jenkins or similar.
3) Responsible for testing complex features which includes designing test scenarios, creating test plans, implementing, automating and executing test cases.
4) Run benchmark performance tests including load time.
5) Collaborate with the designers to understand the intent of new features and develop test strategy and work estimates as a release moves into the testing phase.

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

QUALIFICATIONS:

1) Education and Experience
   a) B.S. or M.S. in Computer Science, Computer Engineering or related field
   b) 5+ years of development/test automation experience with complex web applications
   c) Experience writing automated test frameworks and automated test cases
   d) Experience writing test plans and test cases
   e) Experience in manual, exploratory, regression, performance, and integration testing of enterprise and web applications
   f) Experience testing software with multiple simultaneously-deployed versions
   g) Experience in all phases of Software Testing Life Cycle (STLC) and Automation Testing Life Cycle (ATLC)
   h) Experience using automation frameworks such as Selenium WebDriver, JUnit, or TestNG
   i) Experience a scripting language such as python, javascript, go, perl, shell, etc.

2) Knowledge, Skills and Abilities required
   Required
   a) Ability to prioritize test automation development based on risk e.g. severity and likelihood of failure
   b) Willingness to work in a user-centered, design-driven development model
   c) Dedication to quality and a positive, collaborative attitude and approach to testing
   d) Extremely self-motivated; able to find opportunities for improvement and tackle them without external direction
   e) Methodical and detail oriented, with solid analytical skills and problem solving ability
   f) Ability to work on-site (Mountain View, CA)

   Desired
   a) Experience with Agile/SCRUM methodologies, testing early and often
   b) Excellent written and oral communication skills
   c) Capacity and willingness to adopt new methodologies and skills in line with core responsibilities
   d) Desire to share automated testing knowledge and skills and willingness/ability to help train colleagues
   e) Experience with web development e.g. CSS, HTML, SQL, XML, Apache, etc.
3) Physical Requirements

   a) Occasional travel to other NASA sites may be required
   b) Located at NASA Ames Research Center. Therefore, the employee must meet security qualifications for entrance to the Center, including an Agency background check.
   c) Employee must be a US citizen or Permanent Resident
   d) The location is equipped for full accessibility

4) Complexity of Duties

   Exercises independent judgment in the management and completion of a diverse set of tasks.

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, 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 NASA ATE
210 North 4th Street
San Jose, CA 95112
E-mail: foundation-jobs@sjsu.edu

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The SJSURF has implemented California State University Executive Order 1083 (http://www.calstate.edu/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.