Position: Senior Project Associate (UAS)

DEPARTMENT: Psychology

IMMEDIATE SUPERVISOR: Dr. Sean Laraway, Project Director

POSTING DATE: August 13, 2015

CLOSING DATE: August 21, 2015

SALARY: Negotiable

EXEMPT STATUS: Exempt

GENERAL NATURE OF POSITION:

The Psychology Department at San Jose State University is involved in collaborative research with civil service scientists from 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 Unmanned Aircraft Systems (UAS) Ground Control Station (GCS) technologies to support the integration of UAS into civil airspace. We seek a project associate who will support software development of UAS GCS software applications in support of simulation and live flight testing activities.

ESSENTIAL DUTIES & RESPONSIBILITIES:

a) Collaborate on the day-to-day software development effort and maintenance operations of the UAS GCS software.
b) Develop new core features for production applications.
c) Focus on client-side performance optimization.
d) Develop prototype code to support demonstrations and advanced concepts.
e) Participate in application architecture design.
f) Work closely with the design team to implement detailed design specifications.
g) Work closely with other software development teams within NASA and other government agencies in order to support and coordinate GCS software integration within the NASA Live Virtual Constructive environment.
h) Work with the open-source community or develop open source features directly.
i) 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 Foundation research staff, including student assistants, on a daily basis.

QUALIFICATIONS:

1) Education and Experience

- Bachelor’s degree in Computer Science or related discipline is preferred.
- A minimum of 10 years experience in software engineering.

2) Knowledge, Skills, Abilities required

- Ability to develop and deploy database driven web applications in a production environment
- Skilled in using JavaScript, Matlab, CSS, DOM, HTML
- Excellent software design and evaluation skills.
- General knowledge of mission control and crew vehicle procedures.
- 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 as needed.
- Located at the NASA Ames Research Center. Therefore, this employee must meet security qualifications for entrance to the Center.

4) Complexity of Duties

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

SUPERVISORY RESPONSIBILITIES:

None.

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 may be obtained from the Research Foundation Human Resources Department, through the Research Foundation’s web site at foundation-jobs@sjsu.edu or in person by visiting the Foundation, located at 210 North 4th Street, 4th Floor, San Jose, CA (corner of St. James and North 4th Streets). An application will be required for those interviewed.
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.

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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.