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**Software Engineer for UAS Traffic Management (UTM)**

**SGT Inc Mountain View Full-Time**

Over the past four years NASA Ames Research Center has taken the lead in developing the Unpiloted Aircraft Systems (UAS) Traffic Management System (UTM), a prototype that will be implemented by the FAA for small drones (under 55 lb) flying at low altitudes (0 - 400 ft above ground level) in the National Airspace.  The current iteration of UTM, termed TCL4 or Technical Capability, is being tested in urban environments starting with Reno, NV, exploring capabilities to support applications such as small package delivery, emergency support, traffic surveillance, and many other activities. Such drones will exhibit increasing degrees of autonomy, being capable of flying in urban canyons and beyond line of sight, yet avoiding obstacles including other aircraft.

UTM is a cloud-base system that validates and authorizes flight plans, collects data from vehicles in flight and from ground sensors, monitors compliance with authorized flight plans, and responds appropriately to anomalous vehicle behavior and airspace disruptions such as temporary flight restrictions. You will work with a small team of experienced engineers and software developers and focus on developing data acquisition and analysis software used to evaluate both vehicle and UTM performance.

**Required Skills and Traits:**   
• Agile development processes  
• Test Driven Development (TDD)  
• JAVA  (or equivalent OOP language) restful API development using a framework such as Spring or equivalent  
• GIT  
• Build systems (gradle, maven or equivalent)  
• Use of Relational Databases (MySQL and Postgres)  
• Cloud environment experience (AWS)  
• UNIX command line tools  
• Excellent verbal communications  
• Team player  
• Ability to work directly with the customer  
• Ability to come up to speed quickly on software development projects and make contributions  
• Excellent issue analysis and debugging abilities

**Other Desired Skills: • Experience working with security including web-pen testing and static code analysis  
• Familiarity with Atlassian stack  
• Interest and knowledge of aviation, air traffic management, and unpiloted aircraft systems (drones)  
  
You are submitting your information for consideration to a position that is currently available under the Intelligent Systems Research & Development Services 2 (ISRDS-2) program at Ames Research Center, CA. If selected, your employment offer may be with SGT or one of our teammates on the contract.**

The Equal Employment Opportunity Policy of the SGT is to provide a fair and equal employment opportunity for all employees and job applicants regardless of race, color, religion, national origin, gender, sexual orientation, age, marital status or disability. SGT hires and promotes individuals solely on the basis of their qualifications for the job to be filled. SGT believes that employees should be provided with a working environment which enables them to be productive and to work to the best of his or her ability. We do not condone or tolerate an atmosphere of intimidation or harassment based on race, color, religion, national origin, gender, sexual orientation, age, marital status or disability. We expect and require the cooperation of all employees in maintaining a discrimination and harassment-free atmosphere.

SGT/ISRDS Minimal Labor Category- (Software Engineer IV - Task 248) Level may change commensurate with candidate's qualifications.