

Job Title: Senior Test Engineer (Level 3/4)

Job Location: Colorado Springs, Colorado

Security Clearance: SECRET

Clearance Status: Must be Obtainable



Job Summary:

Responsible for developing and implementing fully automated tests within a Continuous Integration (CI) / Continuous Delivery (CD) pipeline to verify the readiness of a satellite command and control system to be deployed into operations. The WGS-11 spacecraft is the 11th in the fleet of the Wideband Global SATCOM (WGS) constellation of satellites. The Global SATCOM Configuration Control Element (GSCCE) is responsible for controlling the payload of all on-orbit WGS satellites while incorporating enhancements necessary to control the new WGS-11 satellite. The candidate will participate as part of a team to implement a suite of both front-end and back-end tests that ensure the GSCCE software continues to perform correctly across all operational aspects of the system for both WGS-11 and all heritage satellites. The candidate will be a participating member of the DevOps team but will have specific focus on fully automating regression test procedures run as part of the pipeline.

The ideal candidate for this position will have a mixture of skills in both test automation and DevOps. Existing experience working in an Agile development environment with a CI/CD pipeline is desirable.

Primary Responsibilities:

- Recommend tools for implementing both front-end and back-end automated tests
- Design, implement, and maintain the automated tests for the program
- Isolate and report software and system level defects
- Integrate hardware and software components into working systems and environments including both cloud-based and on-premise resources
- Participate as a member of the DevOps team by implementing and maintaining solutions within the CI/CD pipeline across environments (source control, package management, configuration management, infrastructure as code, configuration as code, orchestration, and testing)
- May require occasional travel

Required Qualifications:

- Ability to obtain an interim U.S. Government SECRET security clearance (requires US Citizenship)
- Experience working on an Agile development team using a CI/CD pipeline
- Experience working with software development and automated testing tools
- Ability to isolate and resolve complex problems, identify workarounds, and implement and document corrective actions
- Good verbal and written communication skills

Preferred Qualifications:

- Active U.S. Government SECRET security clearance
- Experience with Eggplant or SoapUI highly desirable
- Experience with scripting languages a plus (PowerShell, Groovy)
- Experience with Jira, Confluence, Git, Artifactory, SonarQube, XRay, Jenkins, Ansible, OpenShift, Docker, Kubernetes or similar tools will be helpful
- Experience with test process development, test case design, test procedure development, test execution, system evaluation and test reporting
- Experience with Virtualization (Vmware, AWS)
- Experience with web service technologies, protocols, and standards (REST, SOAP, JMS, JSON)
- Experience with Wideband Global SATCOM systems, products, and interfaces

Educational Requirements:

- *Engineer Level 3:* Bachelor's degree and 7 or more years relevant experience, Master's degree and 4 or more years relevant experience, or 10 or more years relevant military satellite communications experience
- *Engineer Level 4:* Bachelor's degree and 12 or more years of experience, Master's with 9 or more years of experience

(Degrees must be from an accredited course of study in engineering, computer science, mathematics, or physics)

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