

Job Title: Integration and 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 software and system tests to verify functional compliance of the Common Network Planning Software (CNPS) subsystem. Duties will include performing system level integration activities, defining and specifying the implementation of standards, methods, and procedures for inspecting, testing, and evaluating the functionality, precision, accuracy, and reliability of the system.

CNPS is one of several subsystems required to support the Wideband Global SATCOM (WGS) constellation of satellites which provide communication for all US Armed Forces and its allies. CNPS is the system that performs the planning, resource allocation, link budget analysis, distributed collaboration, and scenario dissemination to satellite control systems GSCCE and RSCCE and situational awareness/monitoring system WRMS. CNPS is deployed globally at the Wideband SATCOM Operations Centers (WSOCs) and Regional SATCOM Support Centers (RSSCs).

The ideal candidate for this position will have a mixture of interdisciplinary skills including those from the software engineering, test engineering, and systems engineering domains. The position anticipates a heavy emphasis on the development of automated test tools and scripts including the establishment and maintenance of a Continuous Integration (CI) environment for the prime contractor, Northrop Grumman.

Primary Responsibilities:

- Evaluate and recommend automated test tools and frameworks for implementation
- Implement and maintain a Continuous Integration (CI) environment
- Develop automated software unit tests for integration into the CI environment
- Develop automated system tests for integration into the CI environment
- Develop manual test procedures
- Determine the verification approach for allocated requirements
- Isolate and report software and system level defects
- Integrate hardware and software components into working systems
- Conduct formal test events with customer witnesses
- Occasional travel required

Required Qualifications:

- Ability to obtain an interim U.S. Government SECRET security clearance (requires US Citizenship)
- Familiarity with software development and testing tools
- Familiarity with requirements allocation and traceability

- Good verbal, written, communication, and interpersonal skills
- Ability to interface with internal and external customers
- Ability to work independently as well as within a team
- Proficiency with MS Office Products (Word, Excel, and PowerPoint)
- Ability to isolate and resolve complex problems, identify workarounds, and implement and document corrective actions

Preferred Qualifications:

- Current U.S. Government SECRET security clearance (requires US Citizenship)
- Experience with software development, continuous integration products, and software source control systems
- Experience with test process development, test case design, test procedure development, test execution, system evaluation and test reporting
- Experience with requirements traceability, system-of-systems integration, test planning, development and execution
- Experience with automated test and data-driven development concepts, tools, and languages
- Experience with Wideband Global SATCOM systems, products, and interfaces
- Experience with automated test tools
- Experience with Virtualization and web service technologies, protocols, and standards
- Experience with databases including Oracle and Postgres
- Experience working in an agile development environment using Jira

Educational Requirements:

- *Engineer Level 3:* Education/experience typically acquired through advanced technical education from an accredited course of study in engineering, computer science, mathematics, physics or chemistry (e.g. Bachelor) and typically 5 or more years' related work experience or an equivalent combination of technical education and experience (e.g. PhD, Master + 3 years' related work experience). ABET accreditation is the preferred, but not required accreditation standard.
- *Engineer Level 4:* Education/experience typically acquired through advanced technical education from an accredited course of study in engineering, computer science, mathematics, physics or chemistry (e.g. Bachelor) and typically 9 or more years' related work experience or an equivalent combination of technical education and experience (e.g. PhD + 4 years' related work experience, Master + 7 years' related work experience). ABET accreditation is the preferred, but not required accreditation standard.

In compliance with Colorado's Equal Pay for Equal Work Act, the salary range for this position is \$85,000 to \$132,000. Ascension Engineering Group considers factors such as work experience, education, key skills, and position role when extending an offer.

Ascension Engineering Group is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status, or disability status.