

**Job Title:** Integration and Test Engineer - NASA and DOD Programs (Level 2/3/4)

**Job Location:** Colorado Springs, Colorado or Aurora, Colorado

**Security Clearance:** Up to Secret

**Clearance Status:** Must be Obtainable



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**Job Summary:**

Responsible for a wide range of integration and test tasks for assigned National Aeronautics and Space Administration (NASA) and Department of Defense (DOD) programs, which may include James Webb Space Telescope (JWST), Electro-Optical Infrared Weather System (EWS), Earth Observing System (EOS) Mission Operations System (EMOS), or Enterprise Management and Control (EM&C).

Duties will include performing system level integration activities, defining and specifying the implementation of standards, methods, and procedures for inspecting, testing, and evaluating the precision, accuracy, and reliability of the system(s). A successful candidate will provide integration and test engineering support for cutting edge technology in an agile environment. The candidate will support test activities, which includes test procedure and test case development, supporting planning and execution of test events, and mission management support. Responsibilities also include participating in test strategy meetings, test readiness meetings and pre-ship reviews. Additionally, the candidate will attend technical interchange meetings, provide document reviews, resolve technical systems test issues, and support emergency change package (ECP) efforts.

The James Webb Space Telescope (sometimes called JWST or Webb) is an orbiting infrared observatory that will complement and extend the discoveries of the Hubble Space Telescope, with longer wavelength coverage and greatly improved sensitivity. The longer wavelengths enable Webb to look much closer to the beginning of time and to hunt for the unobserved formation of the first galaxies, as well as to look inside dust clouds where stars and planetary systems are forming today.

The EWS program is a weather satellite prototyping effort that intends to replace the Defense Meteorological Satellite Program (DMSP) series of satellites that provided weather data for military operations since the 1960s. The EWS satellite will gather the information necessary to build accurate weather forecasts that understand atmospheric effects such as clouds and cloud movement to support mission planning.

The EMOS program provides mission planning, scheduling, and health and safety monitoring of NASA's Terra, Aqua, and Aura spacecrafts. Used in NASA's Goddard Space Flight Center, the EOS Operations Center (EOC) uses the tools to coordinate observations from multiple instruments, develop schedules, validate satellite commands, accommodate unplanned scheduled changes develop mission timelines, and implement contingency plans.

The goal of the EM&C program is to assure the availability of satellite communication (SATCOM) services in contested environments by breaking down the barriers across the military SATCOM enterprise. This program will advance prototyping efforts conducting during a previous phase, with the aim of improving situational awareness and data delivery for the military SATCOM enterprise.

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**Required Qualifications:**

- United States Citizen
- 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
- Trouble-shooting skills for systems comprised of software and hardware
- Experience performing regression test activities and Discrepancy Report (DR) verification
- Mission Management Test Engineering experience
- Demonstrated ability to effectively work with and communicate with all levels of management and individual contributors on the program team
- Excellent written and oral communication skills, including presentation skills
- Experience with Microsoft Office suite of tools

**Preferred Qualifications:**

- Current U.S. Government SECRET security clearance (required U.S. Citizenship)
- Experience with complex satellite ground systems, particularly previous deployment of developed systems to ground station operations
- Experience with Ground equipment/RF equipment
- Experience in verification and validation of system and/or subsystem requirements
- Experience working in an Agile or DevOps development environment, being part of a highly integrated team working closely with Software, Integration and Verification teams
- Experience with test automation and scripting languages, python, etc.

**Educational Requirements:**

- *Engineer Level 2:* Engineer Level 2: Bachelor's degree and 2 or more years relevant experience, or an equivalent combination of technical education and experience (e.g., Associates + 6 years' related work experience)
- *Engineer Level 3:* Bachelor's degree and seven or more years relevant experience, Master's degree, and four or more years relevant experience
- *Engineer Level 4:* Bachelor's degree and 12 or more years of experience, Master's with nine or more years of experience

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

In compliance with Colorado's Equal Pay for Equal Work Act, the salary range for this position is \$78,000 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/Affirmative Action 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.