

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

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

**Security Clearance:** Up to Secret

**Clearance Status:** Must be Obtainable



---

**Job Summary:**

Responsible for a wide range of requirements definition and software development 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). A successful candidate will develop cutting edge technology in an agile environment using skills in software engineering or software development. The candidate should have experience with Java and/or C/C++ software languages and experience with web development is preferred. Key responsibilities for the qualified candidate include development of software changes through Agile/DevOps workflows, problem solving and debugging of code, following established processes and procedures, producing documentation, and working with previously written code to make modifications as necessary. Responsibilities also include the maintenance and management of operations concepts, implementation of external and internal interfaces, and other tasks assigned by the lead software engineer and chief engineer.

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.

---

### **Required Qualifications:**

- United States Citizen
- Minimum 3-6 years working experience in object-oriented software development using both C++ and Java
- Experience with design and development in Agile environment
- 2+ years working experience in software development on the Windows operating system
- Experience with Web based development, including Javascript and/or React
- Experience with SOA based development
- Work related experience with XML
- Work related experience with Python or a different interpreted language
- Software and system-level debugging experience including the ability to identify problems in established code and make modifications as necessary
- Strong teamwork and interpersonal skills
- Ability to establish and maintain good working relationship with all levels of the organization
- Excellent written and presentation skills
- Ability to Travel to support fielded command and control systems

### **Preferred Qualifications:**

- Current U.S. Government SECRET security clearance (required U.S. Citizenship)
- 2+ years' experience working with the Raytheon ECLIPSE® product or similar command and control systems
- Experience integrating software modules
- Experience with Service Oriented Architecture (SOA) concepts
- Experience with OSGi concepts
- Experience preparing and presenting status information and technical material
- Experience with the Eclipse IDE
- Completed Raytheon 6-sigma certification
- Experience and knowledge related to Satellite Operations, Ground Systems and Ground System Operations
- Experience and knowledge related to software discipline process development and deployment
- Experience with customer interaction and end-user engagement
- Software integration and system-level debugging experience
- Experience preparing, statusing, and presenting detailed schedules, technical material and readiness review data both verbally and written
- Ability to coordinate tasks, provide clear task status, address risk issues, and resolve issues across multiple groups
- Familiarity with other engineering disciplines (systems, hardware, test, configuration management, and quality engineering) and how they interact with software engineering

### **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.