



**Job Title: Electro-Mechanical Systems Engineer**  
**Reports To: Engineering Manager, Product**

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**Summary of Position:**

This is a unique opportunity for the candidate looking to work on exciting new electro-mechanical product development in the aviation cargo handling industry. The right candidate will have experience integrating electronics into mechanical mechanisms. This candidate will have performed traditional engineering development lifecycle related to requirements analysis, design, and transition to production. The candidate should have a passion and experience related to electro-mechanical design and troubleshooting.

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**Duties and Responsibilities:**

The Electro-Mechanical Engineer reports to Engineering Manager and works closely with the Business Unit Manager. The right candidate must be able to perform the following successfully:

- Lead design, sustainment, and troubleshooting of USCS electro-mechanical product line (actuators, sensory components, wire harness, embedded controllers, etc.).
- Advance USCS electro-mechanical portfolio with new innovations or new product development.
- Manage internal and/or external resources to maintain schedule and cost targets associated with electro-mechanical products.
- External communication with contractors, vendors, or customers supporting USCS electro-mechanical product line.
- Interdepartmental communication with sales, engineering, or production team supporting USCS electro-mechanical product line.
- Perform “hands on” activities related to fabrication, testing, or troubleshooting USCS electro-mechanical product line.
- Train mechanical engineers on electro-mechanical integration and analysis.
- Other duties as assigned by Engineering Manager.
- All other duties as assigned.

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**Core Competencies:**

- Commitment to company values and ethics.
- Dependability: personally responsible, completes work in a timely manner, and performs tasks accurately.
- Motivation: must maintain a positive attitude and strong work energy.
- Advanced computer proficiency.
- Analytical skills: must be able to gather information and use data to determine cause and effect for complex problem solving.
- Continuous learning: ability to learn new procedures and adapt to change.
- Creativity: makes constructive suggestions and creates novel solutions to problems; evaluates new technology as potential solutions to existing problems.
- Communication: excellent interpersonal and oral and written communication skills.
- Independent: must have the ability to carry out and follow through on tasks with minimal supervision.



### **Core Competencies (Continued):**

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- Initiative: plans work and carries out tasks without detailed instructions, prepares for problems or opportunities in advance, undertakes additional responsibilities.
- Problem Solving: ability to develop and implement new ideas to improve processes.
- Project management skills.
- Strong judgment and decision making.
- Teamwork: works harmoniously with others to get a job done, responds positively to instructions/procedures, and works well with others.
- Time management: ability to organize and manage multiple priorities and effectively deal with tight deadlines and pressure.

### **Qualifications:**

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To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

### **Education and/or Experience:**

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**Minimum:** Bachelor of Science degree (B.S.) in Mechanical or Electrical Engineering from four-year college or university.

**Preferred:** Master of Science degree (M.S.) in Mechanical or Electrical Engineering or related field of study.

#### **Minimum Experience:**

- Experience in specifying or deriving requirements for electric integration into mechanical mechanisms.
- Experience in analysis and sizing electro-mechanical components.
- Experience in sensory device implementation (load cell, proximity sensors, potentiometers, LVDT, etc.) and logic control within electro-mechanical mechanisms.
- Experience with embedded controller design or implementation into electro-mechanical mechanisms.
- Experience with DC/AC motor control logic.
- Experience with design, testing, and troubleshooting electro-mechanical mechanisms (actuators, sensory components, wire harness, embedded controllers, etc.).

#### **Preferred Experience:**

- Experience in the process of developing of aircraft systems per ARP-4754A.
- Experience in the process of developing hardware per DO-254, with direct experience in the certification process of Complex Hardware to Design Assurance Level A or B.
- Experience in software development, management, and troubleshooting software programs (C, C++, LabView, etc.).
- Experience with LabView development and programming.
- Experience with aircraft testing standards, RTCA DO-160.



### **Physical Demands/Work Environment:**

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The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Maneuvers in, around, under, and about factory and/or laboratory equipment on a regular and continuous basis.
- Must be able to lift a minimum of 40 pounds.
- Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus.
- Travel required up to 15%..
- Works at telephone answering equipment, design equipment, and at a PC for hours at a time.

While performing the duties of this job, the employee may be regularly required to sit, stand, bend, reach and move about the facility. The environment characteristic for this position is an office setting. Candidates should be able to adapt to a traditional business environment.

**To apply, submit resume:** [www.uscargosystems.com/careers/](http://www.uscargosystems.com/careers/)