



JOB DESCRIPTION

Title: **Engineering Design Manager**

Reports to: **Director of Engineering**

Summary of Position:

Engineering Design Manager, Telair US LLC dba US Cargo Systems, Goldsboro, NC. Architect the next generation Aerial Delivery System to demanding DAL-A (Design Assurance Level-Catastrophic) certification requirements. Interface with a team of mechanical, aerospace and electrical design engineers on all projects involving mechanical and electro-mechanical components, including supporting the design process from kickoff to certification through the gated development process, and support of production activities as needed. Set standards for the design and manufacture of Mechanical and Electro-Mechanical assemblies. Responsible for the evaluation, estimating, quoting, execution and reporting on status of all development projects of the Military Business Unit. Responsible for managing mechanical engineers directly assigned to the Business Unit, and insuring adherence to all company and department policies and procedures. Ownership of mechanical design topics and issues. Ownership for and successfully leading of the development of next generation Aerial Delivery Lock. Work with the Electrical Systems Design Manager to successfully develop the future Aerial Delivery Control system to DO-254 and DO-178 DAL-A requirements. Ensure that mechanical design work validation and verification is performed to meet DAL-A requirements. Ensure that the mechanical design work is performed in accordance with Design to Cost (DTC), Design for Manufacture (DFM), and Design for Assembly (DFA) process requirements. Establish and maintain the standards for mechanical engineering development work and manufacturing activities. Lead the expansion of electro-mechanical designs, and provide support for business development activities. Participate and be hands-on in the troubleshooting of mechanical issues. Get behind and advance the use of the SolidWorks suite of design tools (SW Premium with Simulation, SW Composer, SW Inspection, EPDM, SolidCAM). Create, review and approve technical reports. Requires a bachelor's degree in Mechanical, Aeronautical or Aerospace Engineering and 120 months of experience in all of the following: design of dynamic mechanical and electro-mechanical components and mechanisms; creation, publication and revision of engineering drawings in accordance with ANSYS Y14.100 standards; troubleshooting of mechanisms in the context of the development cycle; certification of mechanical components for civil or military aerospace applications; and stress analysis (including materials science), FEA, and motion simulation. also requires 60 months of experience with certification of electro-mechanical components for civil or military aerospace applications, 60 months in creating tolerance analysis for large assemblies and ensuring compliance with aircraft interface requirements, 36 months direct definition involvement in flight test program, advanced knowledge of SolidWorks toolset or equivalent, ability to manage large groups of engineers in the gated development process, and advanced knowledge of manufacturing processes and tools used in the industry. Send resume to recruit@uscargosystems.com.

About US Cargo Systems

Telair US Cargo Systems, formerly known as AAR Cargo Systems, is a worldwide leader in the design and development of Cargo Handling and Aerial Delivery Systems. We are proud of our 50+ year heritage serving



US Cargo Systems www.uscargosystems.com

countless commercial and military aircraft customers with leading edge technologies. Our sales and engineering teams have worked directly with nearly all Aircraft OEM's as a Tier 1 supplier, as well as with major freight integrators. We have provided systems for over 40 different aircraft types, including main deck cargo handling systems for the MD-11, 747, 767, A300, A310, and numerous regional transport aircraft. In addition to world class conveyance, guide and restraint solutions, Telair US Cargo Systems has developed Aerial Delivery and Cargo Logistics Systems for several different military aircraft including the A400M, C-130, C-27J, C-2, CH-47, S-92 and AW-101. Whether the need is for smart, lightweight and robust cargo handling or flight critical complex systems, we have field proven solutions.