

Aerospace Engineer
Aviation Safety Resources, Inc.
Nicholasville, Kentucky
Posted: Aug 11, 2019

AVIATION SAFETY RESOURCES

INNOVATIVE SOLUTIONS FOR AVIATION SAFETY

JOB DETAILS

Title: Aerospace Engineer

Aviation Safety Resources, Inc., (ASR), based in Nicholasville, Kentucky, designs, tests and produces whole-aircraft emergency recovery parachute systems designed to bring down an entire aircraft and its occupants in the event of an in-air emergency. The Company is currently searching for motivated individuals to join our team as an Aerospace Engineer.

Reports to: Engineering Manager

Function and Objective:

Aviation Safety Resources is seeking a talented electrical engineer to join our team. The primary purpose of this position is to execute the activities associated with ASR parachute applications, products, materials and subassemblies and provide interface between production and engineering in support of current products. This individual will be responsible for the design and integration of flight critical mechanical actuators, sensors, avionics interface, and other complex kinematic systems. This engineer will work closely with mechanical, software, and other cross-functional teams. This role will often involve design work starting at the conceptual level, mature into full 3D modeling, check with FEA analysis and hand calculations, and continue into manufacturing. As directed by the Engineering Manager, work hand-in-hand with the product design team, you'll be taking ownership of key material selection, coatings, input devices, seals, mechanical hardware, and drafting standards from design through prototyping and to product. This is a hands-on position and requires a 'get it done' attitude, and the ability to work well with a cross-functional team towards the development of these new systems is very important. Optimizing designs for reliability, weight, and efficiency will be a focus. This position is rewarding, as the engineer will promptly see their ideas grow from concept to creation due to the fast pace of ASR.

Essential Functions include:

1. Hands on position focused on developing/adapting whole airplane parachutes systems and products for the general aviation, LSA, sport, experimental and urban air mobility markets. Accountable for product/process/service quality and installation approvals.
2. Interact with current and prospective customers to identify new product application opportunities and to insure the targeted products meet the performance and financial needs of the Company and the Customer.
3. Create clear and readable layout, sizing, and optimization of systems.
4. Interact with various departments to develop new products that are designed for ease of manufacture and installation.
5. Co-ordinate and execute installation projects.
6. Design of complex, flight critical electromechanical assemblies, component selection for minimum mass and maximum reliability.

7. Aid the Solutions Engineering team with various certification testing, including, but not limited to, drop testing and static structural testing.
8. Maintain documentation associated with project including engineering change orders, bills of material, detailed ASR models and associated component drawings, cost worksheets, and supplier correspondence files. Responsible for ensuring Process Specifications and SOP's are developed, in-place, followed, and enforced related to ASR product installations.
9. Investigate modern technologies for precision sensor components into airframe transmission/management.
10. Continuously monitor the progress of projects and coordinate through the Program Engineering Manager with various departments on Program Engineering priorities.
11. Creation and maintenance of technical drawings and bill of materials.
12. Work with technicians to support manufacturing and integration.
13. Write requirements, participate and carry out test and validation plans

Accountability:

1. Presents a positive professional image.
2. Demonstrates responsible time management and a willingness to embrace continuous improvement culture.
3. Strong volumetric awareness, an eye for detail and responsible for accuracy, thoroughness and timely completion of tasks.
4. Respects confidentiality and complies with company policies & procedures.

Qualifications:

Manufacturing/program/aeronautical engineering technical hands on experience, or equivalent required technical experience of the aviation and/or parachute industry. Ability to design complex systems to strict aerospace standards. Demonstrate problem solving skills evidence by results in past positions.

Proficiency in mechanical design, materials selection, troubleshooting, and analysis.

Experience with component selection.

Proficiency with CAD.

Excellent oral and written communication skills. Well developed presentation skills. Ability to meet time requirements. FAA DER experience preferred.

- Experience:**
- BS degree in aerospace, mechanical or electrical engineering. Professional who has gained experience in relevant corporate/industry experience as well as experience in manufacturing. FAA DER experience is desirable. 3+ years of working experience in relevant industry.
 - Ability to work hands-on in a team environment focused on developing applications for ASR products. Knowledge of quality control principles and practices, financial reporting/tracking, and balancing engineering programs.
 - Exposure to regulatory certification. Certification experience to FAR Part 23/25/27/29.
 - Knowledge of aircraft and basic understanding of parachute systems, as well as knowledge of business and management principles. Design-for-reliability, including use of DFMEA and fault trees. Experience designing precision electromechanical systems
 - Hands-on experience with program software (such as Microsoft Project, Excel, Solidworks, Illustrator). Solid analytical, logic and reasoning skills to identify problems and potential issues, evaluate alternatives and provide solutions.

- Experience in reading and drafting technical drawings and specifications.
- Experience working with configuration control, configuration management, document control, work instructions, engineering change orders and standard operating procedures.
- Ability to solve complex issues, provide quality judgment and decision-making.
- Strong communicator both verbally and in writing. Effective presentation skills are a must.
- Excellent interpersonal skills are a must.
- Working knowledge of FMEA and FEA is a plus.

COMPENSATION: Base plus bonus and profit sharing.

LOCATION: Nicholasville, Kentucky

COMPANY DETAILS

Name:	Aviation Safety Resources, Inc. (ASR)
Website:	http://www.aviationsafetyresources.com
Location:	Headquarters, Nicholasville, Kentucky United States of America
Description:	Aviation Safety Resources (ASR) is a privately held Nicholasville, Kentucky based company that designs, manufactures and distributes parachute systems for use on general aviation, recreational aircraft, and unmanned aerial systems and various Department of Defense applications.

CONTACT INFO

Reply to:	Aviation Safety Resources, Inc. Attn: Mary Williams P.O. Box 1049 Stanford, KY 40484 Aviationsafetyresourcescareers@gmail.com