



## Piasecki Aircraft Corporation Job Description

**Job Title:** Mechanical/Aero Design Engineer  
**Department:** Engineering  
**Reports To:** CTO

**Summary** Researches, plans, and designs mechanical products and systems such as instruments, controls, robots, engines, machines, etc. for aerospace industry. Supports and participates in fabrication, operation, application, installation, and repair of mechanical products and systems by performing the following duties.

### **Essential Duties and Responsibilities**

Applies research to the planning, design, development, and testing of mechanical systems, instruments, controls, engines, and/or machines

Works with design engineers in developing type of structure, most practical design, and selection of materials for major components

Support designers in determining parts with adequate margins of safety, good load paths, low weight, and high producibility

Support test definition, requirements, monitoring, data reduction, and comparison to analysis

Conducts plotting and data analysis including frequency domain and time domain type assessments

Conducts testing and/or test set up

Participates in manufacturing operations to develop, engineer and document new/novel processes

Supports and participates in fabrication and installation activities to ensure products and systems conform to engineering design and customer specifications

Designs products and systems to interface machines, hardware, and software

### **Education and/or Experience Required**

BSME or BSAE from four-year College or university;

5 years' experience working in aerospace environment

Experience working Research and Development

Computer skills: MS Office (Word, Excel and PowerPoint, SolidWorks and Drafting skills

### **Education and/or Experience Preferred**

10 years' experience working in aerospace environment

Computer Skills: MS Project, RCAS Software experience preferred

Experience with dynamic analysis and test (modal, vibration, shock) of structure and components

Experience with Finite Elements Analysis

Experienced with materials evaluation and testing for aircraft