

## **Structures Design Engineer**

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### **Description**

Structures Design Engineers will be required to design conventional and composite structures from initial conceptual design through fabrication. Key aspects include completion of production drawings, structural analysis and documentation, development and implementation of operation/assembly instructions, design and fabrication of tooling, and ongoing revision and updates. Engineers will also be required to work in the shop as required to assist fabrication.

Structures Design Engineers may perform the following tasks:

- Use CAD software such as CADKEY, SolidWorks, and AutoCad.
- Provide structural analysis using analytical methods and FEA software such as ALGOR
- Design and develop the product and the production process concurrently.
- Provide assistance in shop performing all common tasks including composite lay-up, bonding and assembly, tooling fabrication, machining operations etc.
- Develop and implement manufacturing equipment and processes to support production of new and existing and new products.
- Complete all documentation required to implement new equipment and processes including operation sheets/routers and detailed assembly/fabrication instructions.

Personal Requirements:

- Bachelor's Degree in Aeronautical or Mechanical Engineering
- Knowledge and use of CAD and FEA software
- Knowledge of aircraft systems and standard hardware
- Knowledge and use of standard machine tools including mill, lathe, band saw, grinders, assorted hand tools, etc.
- Analytical and problem-solving ability
- Good oral and in written communication skills
- Practical and creative
- Able to work without supervision
- Able to accept responsibility
- Able to work as part of a team

Salary & Benefits:

- Salary commensurate of experience
- Eligible for Medical, Dental & Life Insurance after 90 days
- Eligible for 2 weeks paid vacation after one year
- Eligible for Simple IRA after one year