



Stress Engineer (m/f)

Pie Aeronefs is looking for a motivated Stress Engineer to join our team and help us create the next generation of aircraft. We are a small, dynamic team focused on the rapid development and construction of aircraft prototypes.

Role and Responsibilities

Your primary role is the sizing and validation of primary and secondary structural elements of prototype aircraft, particularly fiber composite structures. Your responsibilities are as follows:

- Collaborate with the design engineering group to detail and optimize design concepts
- Construct material representations using laminate theory for use in numerical analysis
- Document results of analysis to justify designs
- Determine load paths and preliminary sizing of elements, including laminates
- Convert 3D models into appropriate FEM models for structural analysis
- Provide training and mentorship to junior stress engineers
- Perform other tasks as required

Qualifications

- MSc in Structural Engineering or better
- 5 years of experience in a stress role
- **Significant experience with fiber reinforced plastics and a thorough understanding of laminate theory**
- A rigorous approach to analysis
- A solid understanding of the mechanics of materials
- Experience with FEA methods and software, including linear and non-linear analysis methods.
- Experience in a prototyping and/or aviation environment is an advantage
- Experience with static testing of aircraft vehicles is also an advantage
- Strong communication skills and ability to work with a small, dynamic team is essential

Contract Conditions

Start : Immediate

Contract : Full time indefinite

Location : La Sarraz, Switzerland

Languages : Engineering operations are conducted in english, but an understanding of french is beneficial to discuss with the production group.

Please send your CV and a motivation letter to info@pieaeronefs.ch