



Example of Stress Engineer Job Description

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Our innovative and growing company is looking for a stress engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

Responsibilities for stress engineer

- Search, evaluate and recommend new thermal and stress modeling approaches and techniques
- Assist in the definition of advanced R&D package technology roadmap and new product development with thermal and stress simulations
- Stress support for the conceptual and detail design of primary and secondary structures in various projects
- Finite element modelling / Analyses for structural parts and assemblies
- Provide support to the design team for conceptual and detail design phases
- Must be knowledgeable in the composite reinforcement materials
- Perform analysis concerning Stress and Strength in the field of the development and integration of electric machines hybrid-electric machines for different types of aircraft
- Perform Thermodynamic analysis shall be conducted to validate the design and to conduct the sizing of an appropriate cooling system for the electric propulsion unit
- Prepare material for, and present findings at, periodic internal and external design reviews
- Responsible for the analytical verification of electro-mechanical mechanisms in accordance with specified spaceflight environmental and load requirements

Qualifications for stress engineer

- Familiarity with Nastran/FEMAP or other finite element analysis software
- Experience with PATRAN/NATRAN, FEMAP or other finite element analysis software
- Previous experience evaluating structural analysis of composite materials mechanical properties is strongly desirable
- Hand calculations
- Stress Report Documentation