Stress Engineer

The Stress Engineer works with the project team conducting various analyses including static stress analysis, fatigue and damage tolerance analysis; providing feedback with the integrated product team on sizing for various components. The stress engineer should be capable of generating the margins of safety for various details, assemblies and installations.

Responsibilities:

- Full responsibility for analysis tasks, and will provide regular updates to the program team.
- Execute the analysis of components for assigned work packages
- Generate stress analysis reports for details and assemblies for military and/or FAA review and approval
- Generate margin of safety summaries for various parts and assemblies
- Provide feedback to design team on material selections and feature sizing for part and assembly release.
- Document technical data generated by the assigned project consistent with engineering policies and procedures
- Provide timely communications on significant issues or developments
- Respond to Production Non Conformance Repairs
- Respond to In-Service Repair Concessions
- Deliver Repair Schemes

Qualifications/Requirements:

- Bachelor's Degree in Mechanical or Aerospace Engineering with a minimum of 5 years' experience in stress analysis.
- Ability to work within Solid Works or related CAD tools to generate the necessary sections required for analysis
- Good knowledge of static analysis (hand calculations) and fatigue for metallic structures
- Ability to generate FEM analysis (pre and post processing using tools such as PATRAN)
- Knowledge of manufacturing methods and processes, prior experience with MRB/ Signature Authority.
- Proficient in the Microsoft Office tool suite
- Proficient in MAthCAD
- Strong technical aptitude, including applicable engineering tools, and systems
- Solid oral and written communication skills
- Strong interpersonal skills
- Experience of interfacing with customers for related technical issues
- Good verbal and written communication skills