



JUNIOR STRUCTURAL ANALYST

Job Responsibilities

- The Jr. Structural Analyst develops structural analyses in support of design activities for aerospace structures, systems, and weapons integration.
- Develops solutions to difficult problems that are thorough, imaginative, practical, and consistent with program objectives.
- Coordinates with other engineering disciplines, management, and customers during the development of solutions.
- Utilizes finite element analysis and classical hand analysis techniques to determine structural integrity and perform analyses of internal loads, free body diagrams, stresses, and component life as necessary to support structural modifications, systems integration, weapons development, and MRB related activities.
- Understands and/or develop structural design criteria.
- Performs stress analysis of metallic and composite structures.
- Assists other engineers in the development of appropriate structural load paths and the minimization of stress concentrations.
- Demonstrated ability to learn methods quickly and apply concepts to varied problem set.
- Reviews and creates drawings, reports, and repairs for accuracy, clarity, completeness, and conformity to standards, procedures, and specifications.

Knowledge and Experience

- Self-starter, highly motivated, exceptional work ethic
- Superior attention to detail, focused, quick learner
- Exceptional character and integrity
- Proactive problem solver
- Leadership attributes a must
- Enjoys challenges, a fast-paced environment, creating technical drawings and models, and working on a diverse problem set
- General knowledge of aerospace fabrication practices, tolerances, and design standards as it pertains to machining, welding, sheet metal fabrication, and assembly
- General knowledge of aerospace surface treatments and metallurgy
- Excellent attention to detail
- Knowledge of aerospace drafting standards and tolerance stack-up analysis
- Detailed mathematical skills, computational skills, and free body diagramming

Give me a lever long enough, and a fulcrum on which to place it, and I shall move the world - Archimedes



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Security Clearance Requirement

- Subject to a security investigation and may need to meet eligibility requirements for access to classified information and a SECRET, TS, or TS/SCI clearance may be required as well.

Education

- Bachelor's degree in Mechanical or Aerospace Engineering from an accredited college, or equivalent experience/combined education
- Zero to Two (0-2) years of professional experience in airframe structural analysis with a B.S. degree.

Benefits include:

- 401(k) Safe Harbor Savings Plan
- Medical, Dental, and Vision Insurance Plans
- Short and Long Term and Disability
- Vacation and Sick Leave Packages
- 12 Paid Holidays each year
- 9/80 Work Schedule

The assigned personnel are responsible for the listed duties and responsibilities plus any other direction and responsibilities assigned by the Managing Members.

Fulcrum Concepts, LLC is a service disabled, veteran-owned, small business that provides innovative services and products to solve requirements for its customers. Fulcrum Concepts, LLC specializes in solutions for tactical aviation organizations and is structured to provide comprehensive solutions that begin with an initial requirement and end with fielded products. At Fulcrum Concepts, the unique combination of operational experience and a robust aerospace engineering capability enable the company to provide elegant, lightweight, enduring solutions for its customers.

Fulcrum Concepts, LLC provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, sex, national origin, age, disability, or genetics. In addition to federal law requirements, Fulcrum Concepts, LLC complies with applicable state and local laws governing nondiscrimination in employment. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation, and training.

