



## SENIOR DESIGN ENGINEER

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### **Job Responsibilities**

- Designs major components, or major portions of a functional system, or technically advanced prototype, promotional or specific products
- Design and development of new products, maintenance and improvements of mature designs, creation and testing of prototypes for research and development
- Develops basic data and makes preliminary layouts, sketches, and notes necessary to present design proposal. Investigates pertinent design factors such as ease of manufacture, availability of materials and equipment, interchangeability, replace ability, strength-weight efficiency, and contractual specification requirements and cost
- Coordinates with other organizations affected by design development
- Clearly and effectively communicates complex, technical designs in external and interdepartmental meetings
- Contributes to the development of mechanical, electromechanical, structures, and weapons systems
- Understand customer requirements, works well in a team environment, and communicate effectively both individually and in groups
- Design ownership of product lifecycle from initial production through production to product support
- Create a product's technical data package for all detail design, subassemblies, and final assemblies (modeling, drafting, checking drawings)
- Apply design for manufacturing and assembly (DFMA) principles to product and component designs
- Evaluate and provide engineering dispositions to non-conformance reports
- Leads, mentors, and coaches junior engineers in all manner of engineering techniques, methods, and professionalism.

### **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

*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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- 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

### **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
- Four to ten (4-10) years of professional experience in Aerospace structures with a B.S. degree. Three to seven (3-7) years with M.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

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

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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 their sex, gender identity, sexual orientation, race, color, religious creed, national origin, physical or mental disability, protected veteran status, or any other characteristic protected by law. 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.

