



SENIOR FLIGHT SCIENCES ENGINEER

Job Responsibilities

- The Senior Flight Sciences Engineer develops aerodynamic 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.
- Understands and/or develops aerodynamic design criteria.
- Leads, coaches, mentors, and directs other engineers in the development and analysis of structural components, fairings, stores, etc. to improve aerodynamic performance.
- Utilizes computational fluid dynamics (CFD), numerical modeling, and classical hand analysis techniques to determine aerodynamic characteristics.
- Performs additional project-dependent tasks, including flat plate drag analysis, trajectory calculations, safe separation/jettison modeling, and analyses related to thermals, aeroacoustics, and aeroelasticity as necessary.
- Develops and improves analysis tools to integrate with commercial software
- Creates reports to deliver results with emphasis on accuracy, clarity, completeness, and conformity to standards, procedures, and specifications.

Knowledge And Experience

- Experience with SolidWorks or similar CAD software
- Understanding of CFD theory and numerical methods
- Experience with STAR-CCM+ or other commercial CFD software
- Self-starter and proactive problem solver, with exceptional work ethic
- Superior attention to detail, focused, quick learner
- Exceptional character and integrity
- Leadership attributes a must, with the ability to mentor less-experienced engineers
- Good communication skills to work well with various teams in a fast-paced environment
- Enjoys challenges, developing/analyzing models, and working on a diverse problem set

Additional skills that are not required but beneficial include:

- Knowledge of aerospace fabrication practices, tolerances, and design standards
- General knowledge of related disciplines, including aircraft stability & control, thermal analysis, structures, design optimization, etc.
- Proficiency in MATLAB, Python, or other scripting languages

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

- B.S. in Mechanical or Aerospace Engineering
- Four to ten (4-10) years of related professional experience or three to seven (3-7) years with a 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
- 13 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 is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to sex, gender identity, sexual orientation, race, color, religion, national origin, disability, protected veteran status, age 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.

