



Senior Mechanical Engineer (Spacecraft)

Umbra Lab, Inc. is a technology company in Santa Barbara, California. Umbra operates in a dynamic, fast-paced environment and is offering competitive industry salaries with equity options for driven individuals. Umbra is looking for a talented, mission-driven professional to work closely with a multidisciplinary engineering team as a Senior Mechanical Engineer (Spacecraft), developing spacecraft structures and space mechanisms for next-generation space radar systems. The individual filling this position will lead the mechanical engineering team to develop, analyze, manufacture, and test mechanical and thermal subsystems.

Key Responsibilities

- Collaborate with engineering team to develop spacecraft structures and mechanisms.
- Deploy and maintain CAD and PDM tools (i.e., SolidWorks).
- Review and release engineering drawings and documents and maintain configuration control.
- Working with System Engineers, develop general requirements, specifications, and test plans for flight hardware.
- Design, fabricate, and test high-reliability space mechanisms, including interface control drawings.
- Perform SMS-related analyses including heat transfer, mass properties, stress, and venting for launch and space segments.
- Interface with vendors as the technical representative and subcontracts manager.

Basic Qualifications

- 10+ years experience as mechanical engineer designing and analyzing complex structures and mechanisms for spaceflight hardware.
- Experience with design and development in CAD software such as SolidWorks (preferred) or Pro-CREO, including excellent drafting ability per ASME Y14.5.
- Comfortable working in a dynamic and fast-paced development environment.

Desired Qualifications

- Advanced degree in Astronautical Engineering or relevant technical discipline.

Additional Requirements

To conform to U.S. Government space technology export regulations, the applicant must be a U.S. citizen, a lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State. Learn more about ITAR here: https://www.pmdtc.state.gov/?id=ddtc_kb_article_page&sys_id=24d528fddbf930044f9ff621f961987

Benefits

- Professional Work Environment
- Flexible Vacation / Paid Time Off Policy
- Medical, Dental and Vision

About Umbra Lab, Inc.

Umbra Lab, Inc. is a venture-backed space company developing next-generation space systems. We are looking for mission-driven professionals to join Umbra Lab. We are building a bold, experienced team of payload developers and spacecraft systems engineers to aggressively expand the state-of-the-art for commercial remote sensing. Join our team to embark on an exciting, innovative and meaningful career. Every team member will have a significant and essential impact, and career growth is unlimited. The industry is just beginning meteoric growth – this is a chance to change how humans and machines use data.