



Flight Software Engineer

Umbra Lab, Inc. is a Santa Barbara, CA space company developing next-generation space systems. We are looking for mission driven professionals to join Umbra Lab. Join our team to embark on an exciting, innovative and meaningful career. Every team member can have a significant and essential impact, and career growth is unlimited. The commercial remote sensing industry is experiencing meteoric growth – this is a chance to change how humans and machines use data from space.

We are looking for a talented, mission-driven professional to work closely with a multidisciplinary engineering team as a Flight Software Engineer, developing flight software and firmware for next-generation space radar systems. This position involves integration of auto-coded GNC software with customized mission software services in a Linux environment.

Key Responsibilities

- Collaborate with engineering team to develop flight software in support of a small satellite constellation.
- Develop, test, and deploy mission software services to interface with satellite GNC communications and payload hardware.
- Working with System Engineers, develop on-orbit CONOPS for spacecraft and payload modes of operation.
- Interface with vendors as the technical representative and subcontracts manager.
- Test and troubleshoot existing software features.
- Compile, test, and deploy software executables to FlatSat and spacecraft hardware.
- Prepare engineering documentation, reports, and test plans.

Basic Qualifications

- Bachelor of Science in relevant discipline such as computer science or electrical engineering.
- Experience developing and deploying flight software in the C / C++ language.
- Professional knowledge of GNC hardware, orbital mechanics, and the space environment.
- Professional knowledge of attitude and orbit control methodologies.
- Comfortable working in a dynamic and fast-paced development environment.

Desired Qualifications

- Advanced degree in Astronautical Engineering or relevant technical discipline.
- Experience developing and employing serial bus communications and protocols (i.e., RS-422).
- Familiarity with the Linux operating system.
- Previous experience with spacecraft systems is a plus.

Additional Requirements

In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire. All persons hired will be required to be a U.S. citizen, a lawful permanent resident of the U.S., or 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.

Benefits

- Professional Work Environment
- Flexible Vacation / Paid Time Off Policy
- Medical, Dental, Vision, 401(k)
- Stock Options

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.

To apply: Email resume to careers@umbralab.com