



RF/ Microwave Electronics 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 RF/Microwave Electronics Engineer with senior level experience who would be developing PCB-based microwave hardware for next-generation space radar systems. The individual filling this position will collaborate with the electrical engineering team to develop, analyze, manufacture, and test microwave subsystems.

Key Responsibilities

- Collaborate with engineering team, especially electrical and antenna engineers, to develop X-band microwave electronics for wideband space-radar systems.
- Design, analyze, and test radio frequency (RF) components and systems for space-radar and electronic warfare payloads.
- Support delivery of novel microwave systems, including PCB assembly, mechanical integration, EMI/EMC management, test, and documentation.
- Interface with vendors as the technical representative and subcontracts manager.
- Work with Systems Engineers to develop and implement operating procedures.
- Support subsystem and spacecraft assembly, integration and test.

Basic Qualifications

- Bachelor of Science in relevant STEM discipline such as electrical engineering.
- 5+ years relevant experience developing PCB-based microwave systems.
- Familiarity designing with microwave components (amplifiers, switches, synthesizers, etc.)
- Experience developing PCB based microwave systems with commercial ECAD suits, integrating surface mount MMIC devices with low-loss dielectric substrates.
- Practical experience with PCB assembly (i.e. subcontracted pick-and-place).
- Familiarity with test equipment such as oscilloscopes and network analyzers.
- Familiarity with serial interfaces such as SPI, RS-422 and RS-485.
- Comfortable working in a dynamic and fast-paced development environment.

Desired Qualifications

- Advanced degree in a relevant technical discipline.
- Familiarity with FCC Rules and Regulations.
- 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