



Satellite Electrical 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 Senior Electrical Engineer, developing flight electronics for next-generation space radar systems. The individual filling this position will collaborate with the electrical engineering team to develop, analyze, manufacture, and test electrical subsystems.

Key Responsibilities

- Collaborate with engineering team to support full life cycle of flight electronics design, analysis, manufacture and test.
- Interface with vendors as the technical representative and subcontracts manager.
- Perform electrical design, including schematic, parts selection and layout, for spacecraft electronics subsystems (e.g. Power Distribution Units, solar arrays, batteries and harnessing).
- Develop and deploy firmware to electronics subsystems.
- Develop and deploy serial protocols and integrate serial transceivers into electronics subsystems.
- Manage full electronics lifecycle including procurement, assembly and test.

Basic Qualifications

- Bachelor of Science in relevant STEM discipline such as electrical engineering.
- 5+ years relevant experience developing high reliability electronics or embedded systems.
- Extensive experience in designing and testing of analog and digital electronics.
- Practical experience with PCB assembly (i.e. subcontracted pick-and-place).
- Familiarity with test equipment such as oscilloscopes, logic analyzers, thermal chambers, and current probes.
- Familiarity with serial interfaces such as SPI, RS-422 and RS-485.
- Comfortable working in a dynamic and fast-paced development environment.

Desired Qualifications

- Masters Degree in a relevant technical discipline.
- Experience developing in C / C++ and Python.
- Experience developing firmware for embedded systems (e.g. microcontrollers, FPGAs)
- Experience developing spacecraft power systems.

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