



## Ground Software Engineer (Back End Services)

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 Ground Software Engineer, developing back end services for next-generation space radar systems. This position involves integrating ground control software. The engineer filling this position will be responsible for integrating third-party ground control, communications, and tasking software to produce an integrated spacecraft operations control center.

### Key Responsibilities

- Collaborate with engineering team to develop and interface ground system architecture in support of a small satellite constellation.
- Lead and implement ground software architecture.
- Lead the integration of multiple existing ground software components.
- Support the design and implementation of a Mission Control Center.
- Prepare engineering documentation, reports, and test plans.

### Basic Qualifications

- Bachelor of Science in relevant discipline such as computer science or electrical engineering.
- 7+ years of relevant experience in software design and implementation.
- Experience with full life-cycle software architecture, development, and implementation.
- Experience with software test methodologies.
- Comfortable working in a dynamic and fast-paced development environment.
- Familiarity with server-side languages (i.e., JavaScript, Python, Ruby).

### Desired Qualifications

- Working knowledge of Amazon Web Services (AWS), including EC2 and S3.
- Working knowledge of satellite ground command and control architecture.
- Experience with Kratos and/or Kratos Quantum ground control software.
- Experience in C / C++ and Python.

### 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](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.*