Astrogate Labs is a space-technology start-up based in Bengaluru, building core technologies in laser communication terminals and networks for small-satellites. Astrogate Labs aims to simplify, reduce cost of communication, and enable satellites send more data to ground. We have developed one of the industry's smallest optical communication terminals targeted for small satellite use, further scaling our products and aiming for our first satellite mission. We aim to revolutionize satellite communications and support the growing satellite downlink needs with a network of optical ground stations and in-space relays using the technologies developed in-house.

Why Join Astrogate Labs?

- **Work on cutting-edge technology**: Build laser communication systems that are 100x faster than traditional RF, deployed on satellites and defense platforms and the only scalable solution for building inter-planetary internet
- **Real impact**: Your work will directly contribute to India's space capabilities and national security applications
- **Ownership**: In a lean & agile team, you'll have significant responsibility and visibility across the entire product lifecycle
- **Learning**: Work alongside experienced aerospace engineers and advisors
- **Growth**: Be part of a rapidly scaling startup backed by marquee investors, with clear pathways to leadership roles

Our Culture

We're a startup, which means hustle is part of the DNA. Expect fast iterations and the need to be resourceful.

We value:

- Technical excellence with a bias for action
- Collaborative problem-solving across disciplines
- Curiosity and continuous learning
- Pragmatism balanced with innovation

Job Title: Optical AIT (O-AIT) Technician

Duration: Full-time

Location: Sahakarnagar, Bengaluru

Qualification: Technical/professional diploma in Mechanical, Optics, or similar with 3+ yrs of relevant experience in integrating optical systems

Job Responsibilities

- Collaborate with mechanical/opto-mechanical team in the definition of optics integration and alignment approach for Astrogate's laser communication systems
- Incoming inspection of devices, optical parts and components
- Integrate opto-mechanical sub-assemblies and other sensor modules
- Carry out optical alignment of components and assemblies, conduct optical alignment tests with collimators, measure system performance
- Collaborate with System Engineers & Opto-mechanical team for the definition of test plans, test cases and procedures for optical subsystem testing at various integration levels
- Support definition of quality metrics and acceptance procedures and criteria
- Collaborate with Avionics, Opto-mech & AIT teams for integration of full laser communication terminal
- Collaborate with Opto-mech, procurement team, for manufacturing of PCBs and managing inventory of electronics components & packages and other electrical/ electronic components
- Conduct functional and system level tests to validate subsystem & system reliability across different models
- Participate in environmental testing including thermo-vacuum, vibration, shock tests & launch campaign support
- Maintain accurate records of test results, generate comprehensive test reports, and ensure traceability of hardware and test configurations and
- Report non-conformance, troubleshot and resolve issues effectively in a team setting
- Maintain all optical assembly tools & measurement equipment's

Required Skills/Experience

- Sound understanding of optical systems and properties used in precision alignment of optical subassemblies, use of shims, spacers etc.
- Understanding of optical components: Lenses, Filters, Mirrors, Apertures, field stoppers, pinholes, waveplates, beam-splitters etc.
- Good understanding of GD&T practices and engineering drawing standards
- Proficiency in CAD design tools, SolidWorks preferred
- Knowledge of elastomer & adhesive curing, alignment techniques, and optical handling.
- Good ability to read optical and mechanical drawings.
- Familiarity with metrology tools: Interferometer, Collimator, beam profilers

Desired Skills/Experience

- Prior experience working in a cleanroom environment with knowledge of contamination control protocols and cleanroom standards
- Good understanding of mechanical engineering and the operation of environmental test equipment (e.g., thermal vacuum chambers, shaker tables).
- Certification in areas related to Optical AIT of satellite systems from ISRO etc.
- Experience assembling satellite/ defense optical systems with micron-level precision
- Ability to converse in Kannada will be an added bonus

Other Requirements

- Motivated to work within a multidisciplinary team in a fast-paced environment
- Self-driven desire to learn more & continuously upskill themselves
- Ability to deal with challenges, and work out solutions in a team setting
- Relentless pursuit of excellence in all aspects of work
- Strong interpersonal and organization skills to enable working in a dynamic team
- Good verbal and written communication skills

Benefits

- Health Insurance coverage
- Flexible working hours

Please send your resumes to career@astrogatelabs.com.

Astrogate Labs is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.