

Optomechanical AIT Engineer

Simera Sense is a leading provider of Earth observation camera solutions for the global small satellite market. Committed to excellence and innovation, we deliver superior products and services to our worldwide customer base. Our Holdings Company is in Belgium, and our South African company is based in Somerset West, close to all amenities and diverse natural beauty, providing great lifestyle options.

Are you passionate about precision engineering and cutting-edge space technologies? We're looking for a highly skilled Optomechanical AIT Engineer to join our dynamic team, where innovation meets impact. In this role, you'll be at the forefront of assembling, integrating, and testing advanced optical and mechanical systems for spaceborne instruments. You'll collaborate with multidisciplinary experts to ensure our payloads meet the highest standards of performance and reliability.

If you thrive in a fast-paced, high-tech environment and are driven by the challenge of turning complex designs into operational reality, we'd love to hear from you.

Position Type: Full-time

Remote Opportunity: No

Report To: Cobus Laubscher

Location: Somerset West, South Africa

Job Purpose:

Ensure the precise assembly, integration, and testing of spacecraft components, guaranteeing they meet all technical and quality standards for successful space missions.

Responsibilities:

- Work closely with engineers, technicians, and other stakeholders
- Provide technical support and guidance to junior team members
- Communicate effectively to resolve issues and ensure project success
- Design and improve assembly and integration processes for optomechanical systems
- Integrate optical and mechanical components to ensure proper alignment and functionality
- Maintain the integrity of optical systems in a cleanroom environment
- Mature and improve the company's AIT procedures.
- Maintain and improve AIT equipment
- Develop and execute test plans for optomechanical systems
- Analyse test data to validate system performance and make necessary adjustments
- Coordinate with cross-functional teams to ensure project milestones are met.
- Manage timelines and resources for optomechanical AIT activities.
- Prepare and present project status reports.
- Implement quality control procedures to ensure compliance with industry standards
- Conduct inspections and audits of optomechanical systems
- Address and resolve any non-conformances
- Maintain detailed records of assembly, integration, and testing activities.
- Prepare technical documentation, including integration procedures, design documentation, work instructions, build history documentation, test reports, and customer documentation.
- Ensure all documentation is up-to-date and accessible.

Required Qualifications:

Bachelor's Honours Degree in Mechanical or Mechatronics Engineering, Physics, Optomechanical Engineering, or a related field

Required Experience:

- 0 - 5 years in mechanical or optomechanical engineering roles, preferably in the space, defence, medical or highly regulated industry
- Experience working in a cleanroom environment and complying with quality processes is preferred but not a requirement.
- Experience in mechanical design, development and manufacturing.
- Experience assembling precision mechanical assemblies

Recommendations:

- Experience and knowledge of optical/optomechanical systems.
- Experience with Siemens Teamcenter and NX software
- Experience performing AIT of optical payloads or other high-precision optical instrumentation.
- Experience working in a cleanroom environment and complying with quality processes.
- Hands-on experience with interferometry techniques and equipment.
- Proficiency in optical metrology.

Special requirement(s):

Will be required to work on weekends and after hours.

What we offer:

- The opportunity to work in the fast-growing space industry.
- Niche global market for optical payloads for microsatellites.
- Cutting-edge technology at your fingertips
- A competitive salary
- A friendly working environment.

Ready to make an impact?

Apply now by submitting your CV and cover letter: <https://simera-sense.breezy.hr/p/908e7fe997df01-optomechanical-ait-engineer?state=published>