

AIT Engineer

Blackswan Space is making satellites autonomous – a cornerstone for enabling the future space economy as space traffic rapidly increases. With the help of the European Space Agency, our team is developing a novel product for spacecraft relative navigation while leveraging computer vision and neural networks – the RPO Kit.

We are looking for naturally curious minds with a can-do practical attitude eager to satisfy their inner astronaut.

If you're keen on hands-on work with a novel product for the space industry, while also having a knack for running complex test campaigns, we would love to hear from you!

Job Description

As an instrumental part of our RPO-Kit engineering team you will:

- Own and execute all the AIT activities, with a specific focus on environmental testing (TVAC, mechanical, radiation, EMC).
- Define, write, and maintain AIV (Assembly, Integration, & Verification) plans, test procedures, and test reports.
- Work closely with the Systems Engineer to ensure requirement-to-test traceability and verification logic is correctly implemented.
- Support the Project Manager, coordinating activities performed in external test facilities (e.g. ESA labs, commercial facilities, integrators), including test readiness, logistics, and execution.
- Set up, maintain and troubleshoot functional and environmental test benches for representative and flight-like hardware.

Job Requirements

- At least 2+ years of AIT experience in the space industry, with direct involvement in environmental testing (TVAC, mechanical, radiation).
- Proficiency in clean room protocols, experience with EGSE/MGSE.
- Real-time problem solving with ability to work well under tight schedules.
- Can do attitude with internal motivation to drive assembly and testing to

successful launch integration.

- Apply ECSS-compliant processes for test planning, configuration control, NCR handling and documentation.
- Hands-on experience with the debugging of hardware, including electrical and mechanical interfaces.
- Ability to write clear, structured test documentation, including procedures, logs, and reports.
- Existing security clearance (or eligibility to obtain one).

Assets

- Experience in Mechanical Engineering, including reading mechanical drawings, working with CAD software, and interpreting analyses.
- Experience with Design for Manufacture and Assembly (DfM/DfA), and working with manufacturing teams.
- Experience of optical and camera-related testing, including: optical performance validation as well as alignment, calibration, and stability testing.
- Experience with Matlab/Simulink, LabView or other similar tools used in testing and data collection.
- Experience working with motion capture systems and robotics.

Job Location: London, UK.

Employment Type: Full time on-site

Salary range: £45,000 – £70,000/year depending on experience

Working at **Blackswan Space** - What's in it for me?

- Be a part of a growing international team that is not afraid of tackling some of the hardest problems in the space industry.
- Flexible and supportive working environment with real ownership of your work.
- Work alongside ambitious individuals who share your values and are passionate about the future of the space industry.
- Significant career growth and learning potential working with our global network of space experts spanning 3 continents.

To Apply: Please send your CV to info@blackswanspace.com