

Senior Product Quality Assurance / AIT Engineer (Reference JP2103)

COMPANY PROFILE

Micos Engineering GmbH is a privately owned and an independent system engineering SME that focuses on optical instrumentation for the European space market. Micos serves its Customers with design, engineering and AIT (Assembly, Integration and Testing) of flight hardware and ground support equipment (GSE).

Micos facilities dedicated to integration and testing account for ISO5, ISO6 and ISO7 cleanroom areas equipped with quality and metrology instrumentation to support opto-mechanical integration and verification; TVAC facility with double cooling circuit; an Electrostatic-discharge Protected Area (EPA) optical lab equipped with instrumentation operating in the range between VIS to LWIR range for breadboarding activities; thermometry calibration and vibration monitoring equipment are also inhouse. Micos is an ISO 9001 certified organization.

Micos' facilities are embedded in the premises of the Swiss Federal Laboratories for Materials Science and Technology (www.empa.ch) which notably augments the quality and range of our services to customers and partners.

Field of Expertise

Our multi-disciplinary team runs projects with a professional network of industrial and institutional partners. Micos key competences are:

- Optical, Opto-Mechanical Design and AIT
- Characterization & Calibration Systems and GSEs (incl. electrical equipment with software)
- Optical fiber based Metrology Systems
- Spectroscopic and Interferometric Systems
- Prototype Processing and Algorithms
- Project and Subcontractor Management, Product Assurance

JOB DESCRIPTION

Micos aims to expand the multidisciplinary team. Therefore, we are seeking for you, an experienced Product Quality Assurance / AIT Engineer preferably with an optical background in space in the context of space instruments and/or products design, development, AIT and verification for institutional (ESA) and commercial customers (system primes).

Ideally, you should have hands-on expertise in:

- Validation of applicable documentation (configuration management), preparation of contractual documentation such as acceptance data packages and relevant annexes, interfacing towards Customer quality for the definition and implementation of products acceptance plans (mandatory inspection points, key inspection points) with management of possible anomalies (non-conformance, deviations, waiver), flight hardware inspection and release.
- Coordination and participation of customer meetings (design reviews, test reviews, acceptance meetings); representing the Company for all quality aspects.

- Check release of procurement specifications for materials and components and relevant supplier qualification/surveillance; execute the technical procurement and inspect the parts at arrival for acceptance.
- Control cleanliness & contamination (in particular definition and preparation of dedicated plan and procedures).
- Prepare project documentation required by the customer, for example, Critical Items List, Risk Reports, DML, DPL, DMPL, CIDL, ABCL and PAD Forms.
- Conceptual and detailed design and analysis of optical subsystems (mechanical / electrical).
- AIV/AIT planning and hands-on execution in controlled environments (use of clean rooms and TVC) under space regulations starting from 3D/2D drawings.
- Supporting the further development and improvement of product quality and assurance processes of Micos, aiming at providing services for optical instrumentation for space.

PROFILE AND ASSETS

Following indicators regarding job profile and assets are of interest to Micos:

- Professional expertise in space engineering domain 7+ years.
- Ability to trade-off technical, schedule and financial requirements. *Entrepreneurial mindset is an asset.*
- Knowledge of space related quality assurance and product assurance aspects in accordance with ECSS and ESCC. *Knowledge of space related development, processes and qualification aspects is an asset.*
- Proofed experimental and testing expertise.
- Ability to define and prepare qualification & validation plan for parts, materials and processes based on the applicable requirement and specifications.
- Ability to support the Customer for qualification/acceptance test on (space) products after delivery.
- Ability to define and implement manufacturing and verification flow charts for the items produced in the Company (including contamination control).
- Ability to support and complement the design team in AIT related issues. Comprehensive knowledge of electrical / opto-mechanical engineering, including design and analysis best practice to mitigate thermo-mechanical stress, EMC and radiation issues.
- Ability to organize, design and execute a test plan at subsystem level including the necessary equipment and infrastructure. Ability to critically assess the measurements results before reporting.
- Hands on experienced in working with optical laboratory metrology within cleanroom environment. *Experience in operating in Thermal Vacuum Chamber conditions is an asset.*
- Familiar with handling instrumentation data flow (including command, acquisition and post treatment). Willingness to learn and adapt to new interfaces/software.
- Proficiency in spoken and written English. *Ability to communicate in a Swiss national language is an asset.*

We are looking forward for candidates being very well able to integrate in teams and willingly to take on responsibility for successful working and good social cooperation. One of your competences should be characterised by autonomous working driven by your analytical thinking skills and target-oriented, constructive behaviour to get things done on time.

Micos, as an industrial player active in the space domain, offers for intrinsically motivated persons a dynamic, very exciting and challenging environment on a daily basis. Contractually, labour conditions to work with Micos team are kept at favourable level.

The position is available as of now.

INTERESTED?

Please send your Curriculum Vitae with subject reference **JP2103** to the following email address: micos4u@micos.ch. Preference is given to applications initiated by the Candidate.