

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 ground support equipment and flight hardware.

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 in-house. 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
- Optical fiber based Metrology Systems
- Spectroscopic and Interferometric Systems
- Prototype Processing and Algorithms
- Project and Subcontractor Management, Product Assurance

Experienced Mechanical/System AIT Engineer (Reference JP1706)

JOB DESCRIPTION

Looking forward to expanding our multidisciplinary team by an experienced Mechanical/System AIT Engineer with an opto-mechanical background (in space).

Ideally, he/she should have hands-on expertise in

- Conceptual and detail design of opto-mechanical subsystems
- Performing structural and thermal analyses
- Generating CAD models and manufacturing drawings
- AIT planning and execution in controlled environments (use of clean rooms and TVAC) under space regulations starting from 3D/2D drawings
- Executing technical procurement of mechanical / optical components with international suppliers and inspecting the parts at arrival for acceptance

PROFILE AND ASSETS

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

- Ability to organize, design and execute an optical / opto-mechanical test plan including the necessary equipment and infrastructure. Ability to critically assess the measurements results before reporting
- Experienced in working with optical laboratory metrology within cleanroom environment.
- Ability to support and complement the design team in AIT related issues. Comprehensive knowledge of mechanical / opto-mechanical engineering, including design and analysis best practice to mitigate thermo-mechanical and mechanical stress issues.
- Sensitive to the level of tolerance needed for precision opto-mechanical systems.
- Familiar with handling instrumentation data flow (including command, acquisition and post treatment). Willingness to learn and adapt to new interfaces/software.
- Hands-on experience of FEMAP/NASTRAN as FEM analysis tool is appreciated.
- Hands-on experience in working with PTC Creo is appreciated.
- Experience in handling Thermal Vacuum Chamber is appreciated.

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. Part-time work at the level of 80% and more can be considered on a case by case basis. The position is available as of now.

INTERESTED?

Please send your Curriculum Vitae with subject reference JP1706 to the following email address: micos4u@micos.ch