

Optical Systems Engineer

LMO SARL is a company based in Luxembourg developing innovative technologies for Vision-Based Space Situational Awareness (SSA) Systems to support future missions for In-Orbit servicing and dual-use applications (civil and defence). LMO SARL is involved in the design, development, verification, build, test, and operation of its space-borne systems and does so through collaboration with major research and industrial players in the field of Computer Vision including AI solutions.

Position Summary

For its SSA applications, LMO is involved in the selection, specification and procurement of optical sensors which are then used to run the computer vision algorithms developed for SSA in space. The optical engineer at LMO is the subject matter expert in optical sensors (active and passive) and supports the selection, sizing, trade-offs, analysis and implementation of sensors on LMO's payloads and applications for space situational awareness applications in space missions. They are also responsible for the optical aspects of verification and validation activities of the space systems, including functional and environmental testing.

Location

Technoport – Belval, Luxembourg

9, Avenue des Hauts-Fourneaux, L-4362, Esch-sur-Alzette

Capabilities we are looking for

- Masters degree (MSc) optical engineering or related fields (electronics, photonics, signal processing) or equivalent professional experience
- Experience in optical systems development: sizing, design trade-offs, optical power budgets.
- Understanding of radiometric models (visible, thermal). Ability to mathematically model and/or interpret radiometric problems.
- Understanding of how detectors operate (CMOS, CCD, etc.): electro-optical properties, noise modelling, etc.
- Exposure to real engineering problems involving optical sensors.

Things that are a bonus, but not a must

- At least 3 years of experience in relevant field
- Knowledge of space industry standards (ECSS)
- Familiarity with space electronics
- Experience with image processing applications.

What we offer

- Work autonomy (low management overhead)
- International environment
- Flexible hours, hybrid work
- Fast career evolution
- Engagement with the Space and Machine Learning communities (Academia, Space Agencies, conferences, etc.)

Salary Information

For this role the base salary expectation, depending on experience, is between 70,000 and 90,000 EUR per annum for a 40-hour work week. This includes 26 days annual leave.

Contact Information

Email: info@lmo.space