

## Junior Guidance, Navigation & Control (GNC) 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

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The Junior GNC Engineer will participate in the definition, design, analysis, and implementation of the GNC elements for a space rendezvous mission based on the AI-powered Visual Navigation system developed by LMO. Working within a multi-disciplinary team in the framework of in-orbit servicing applications he/she will be involved from early phase in the definition and analysis of the GNC system requirements for in-orbit servicing, including rendezvous, docking and berthing applications. He/she will contribute to the development of the GNC solution throughout its lifetime, including verification & validation aspects. The role will involve strong emphasis in modelling and analysis, requirements derivation and simulations and prototype testing.

### Capabilities we are looking for

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- Strong skills in modelling spacecraft dynamics and attitude control. Knowledge of reaction control system (RCS) dynamics is a plus.
- Good understanding of spacecraft GNC architectures, including first principles and practical aspects of AOCS sensors and actuators.
- Understanding of linear control theory. Experience in non-linear control applications is a plus.
- Derivation, analysis, and verification of GNC related requirements for spacecraft applications.
- Experience with Matlab/Simulink or Python programming.

### Things that are a bonus, but not a must

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- A first professional experience involving GNC topics.
- Experience in the Validation & Verification (V&V) process of a GNC system.
- Experience or exposure to GNC implementation in software for embedded applications.
- Proficiency in C and C++ programming languages
- Experience in modelling spacecraft flexible modes and sloshing

#### **LMO Space**

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- Experience in testing AOCS systems including control modes performance

#### What we offer

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- 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.)

#### Location

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Technoport – Belval, Luxembourg

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

#### Conditions

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For this role the base salary expectation, depending on experience, is between 60,000 – 80,000 EUR per annum for a 40-hour work week. This includes 26 days annual leave.