Space Applications Services – Industrialisation Engineer – Space Robotics

Position

We are looking for an Industrial Engineer with a strong orientation towards robotics product industrialisation to join the **Robotics, Mechanisms and Structures** (RMS) Team.

The successful candidate will support the optimisation of existing concepts into robust, manufacturable products, ensuring the critical review and enhancements of designs, processes, and supply chain interactions for our innovative space robotics applications (in-orbit and planetary).

The following products will be addressed, to start with:

- Robotics manipulators and docking systems for on-orbit servicing
- Gravity-Offloading System and Health countermeasures systems for astronauts and earth applications.

The candidate will mainly report to the RMS Team Lead and the Project Managers of the Flight System and RMS Team.

- **Location**: Sint-Stevens-Woluwe (Brussels Area)
- **Start Date**: Quarter 1, 2026.

Tasks and Responsibilities

- Perform detailed mechanical design and optimization of space components and mechanisms
- Optimise existing designs to reduce cost, lead time, and weight while maintaining performance and safety requirements
- Produce high-quality 2D technical drawings and definition files ensuring strict compliance with standards for manufacturing
- Conduct design trade-offs to select the most efficient manufacturing technologies for small series production
- Define assembly procedures and tooling to facilitate repeatable and reliable integration
- Collaborate with cross-functional teams (electrical, systems, and quality) to ensure seamless interface integration
- Manage the Bill of Materials (BOM) and configuration control throughout the product lifecycle
- Support the CE marking process and compliance with relevant directive for ground robotics terrestrial applications
- Generate technical documentation required for manufacturing and assembly procedures
- Lead the interaction with external suppliers and machine shops.

Skills and Experience

- A Master’s degree in Mechanical, Industrial, or Mechatronics Engineering

- At least 3 years of professional experience in mechatronics/mechanical design and industrialization
- High proficiency with CAD software (e.g. Solidworks), with proven track record of mechanisms design
- Excellent knowledge of manufacturing processes (machining, sheet metal, 3D printing), materials, and surface treatments suitable for space or harsh environments
- Experience in Value Engineering and cost optimisation is highly desirable
- Experience with CE marking procedures, including Risk Assessment and Technical File compilation
- Experience and knowledge of space mechanisms is an asset
- Good knowledge of ECSS design standards and qualification/acceptance processes in an asset
- Experience with ESA and/or EC proposals and programs is an asset
- Hands-on problem-solving skills with a pragmatic approach to engineering
- Excellent organizational skills to manage suppliers and production schedules
- Excellent communication skills and ability to work in distributed international teams
- Very good written and spoken English.

Our Offer

- Working within an exceptional sector with Staff located in Belgium, Germany and the Netherlands
- A professional and modern working environment with motivated Administrative Staff, Engineers, Astronaut Training Instructors and Scientists coming from all different horizons and countries with a common passion for space and their own expertise
- A full-time position with an indefinite contract of employment
- A competitive remuneration package and good working conditions
- Working from home in part can be a possibility
- An individualised training and development programmes.