

Space Applications Services – Mechanical/Mechatronics Engineer – Space Robotics

Position

We are looking for two (2) **Mechanical/Mechatronics Engineer** to deal with the design and development of our innovative space robotics applications (in-orbit and planetary), in challenging ESA and EC funded projects as well as commercial products development.

These projects cover currently the following topics:

- Active space mechanisms and their integration in robotics systems
- Space actuators and robotics manipulators for on-orbit servicing
- Gravity-Offloading System and Health countermeasures systems for astronauts and earth applications.

The position is in the Systems Department, **Robotics, Mechanisms and Structures** (RMS) Team (comprised of 15 persons).

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

- **Location:** Sint-Stevens-Woluwe (Brussels Area)

- **Start date:** Quarter 1, 2026.

Tasks and Responsibilities

- Generate and develop innovative design concepts for space components, systems, or structures, considering performance, manufacturability, and safety requirements
- Carry out:
 - Design trade-offs and early validation with prototyping approaches
 - End-to-end CAD design, optimization and preparing models and drawings for manufacturing
- Evaluate and select appropriate materials and processes, considering applications and environmental constraints
- Collaborate with cross-functional teams (electrical, control, systems and quality engineers) for seamless design integration
- Iterate with simulation engineers for structural and thermal analyses considerations
- Support:
 - The manufacturing process and interact with external suppliers, including selection of COTS components
 - The integration, testing, qualifications and acceptance activities
- Generate the technical documentation required all along the processes.

Skills and Experience

- A Master's degree in Mechanical, Mechatronics or equivalent with a background in robotics engineering
- At least 3 years of professional experience in an equivalent position
- Experience and knowledge of space mechanisms is an asset
- High proficiency with CAD software (e.g. Solidworks), with proven track record of mechanisms design
- Excellent knowledge of materials, tolerances, manufacturing processes and supply chain for space products
- Experience of hardware testing on test bench
- Good proficiency writing technical reports
- Experience with ESA and/or EC proposals and programs is an asset
- Prior exposure to ECSS design standards and qualification/acceptance processes is an asset
- Good understanding of mechanical simulation and analyses (structural, thermal and vibration) stakes and issues
- Hands-on problem solving skills
- Strength to cope with schedules and deadlines
- Ability to work in distributed international teams
- Excellent organisational and communication skills
- 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.