

A background image showing two people in a control room, looking at multiple computer monitors displaying various data and graphs. The scene is dimly lit, with the primary light source being the screens.

Space Applications Services – Robotics Control Engineer – Space and Defence Robotics

Position

We are looking for one (1) **Robotics Control 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.

These projects cover currently the following topics:

- Active space mechanisms and their integration in robotics systems
- Space actuators and robotics manipulators for defence and on-orbit servicing
- Gravity-Offloading System and Health countermeasures systems for astronauts and earth applications.
- **Location:** Sint-Stevens-Woluwe (Brussels Area)
- **Start date:** Quarter 3, 2026.

Tasks and Responsibilities

- Analyse potential control strategies, carrying out trade-offs accounting for hardware components (motors, sensors, electronics) and taking into account mission requirements
- Develop hardware and software test setups to validate the suitability of the control strategies
- Develop (low- and high-level) simulation environment to test and validate developed software
- Support the end-to-end implementation, testing and optimisation on target robot architectures
- Generate the technical documentation required all along the process.

Skills and Experience

- A Master's or PhD degree in mechatronics, control or (robotics oriented) software engineering
- At least 3 year of professional experience in an equivalent position
- General knowledge on:
 - Robotic systems and subsystems
 - Optimized based control
 - Common robotics modeling and control theory.

- Hands-on experience with:
 - Robotics software development and frameworks (e.g. ROS-2, Gazebo/Isaac Sim)
 - Real-time control and communication (e.g. CAN, EtherCAT)
 - Complex software architectures assemblies, deployment and testing (e.g. Docker)
 - Continuous Integration processes and agile software development
- Proficiency with:
 - Embedded programming and microcontroller
 - Technical documents production
- Good knowledge of Matlab
- Advanced programming skills in C, C++ and Python
- 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.