




5.1 Job Posting for Researcher at Robotnik.

 **Robotnik Automation S.L.:** Ronda Auguste y Louis Lumière, 8, 46980 Parque Tecnológico, Paterna, Valencia, Spain

Eligible sending organisations ●

AUTH, ULUS, JSI

Role title ●

Robotics Software Engineer

Environment ●

The secondee will be deeply involved in **R&D activities** within our **Software Development Department**. The core task is to **design and implement automated testing frameworks** for **advanced mobile robotic platforms**, which is a key R&D activity involving prototyping, testing, and integration. This role requires a strong research and development mindset suitable for an R1/R2 profile.

What you will work on ●

The secondee will work with ROBOTNIK's SW department to:

- Design, develop, and maintain automated testing scripts and frameworks for robotic software modules.
- Execute automated tests for mobile robot functionalities like navigation, perception, and manipulation.



- Analyse test results, identify bugs and performance bottlenecks, and collaborate with developers on resolutions.
- Utilize robotic simulation environments (e.g., Gazebo) to create and validate test scenarios.

What you will gain •

- The secondee will gain **hands-on experience** in **applying software testing principles** to **complex mobile robotic systems** in an industrial setting.
- They will **develop expertise** in **creating automated testing pipelines for commercial robots** and **enhance their skills in ROS/ROS 2, simulation tools, and CI/CD practices.**

Desired profile •

- Proficiency in Python and/or C++. These are the primary languages used for robotics development and test automation with ROS/ROS 2.
- Experience with Linux and version control systems (e.g., Git). Our development environment is Linux-based, and Git is essential for collaborative software development.
- Familiarity with robotics frameworks like ROS/ROS 2 is highly desirable. Our robots are built on ROS, and understanding its architecture is crucial for effective testing
- Familiarity with software QA methodologies and tools (e.g., test case management, bug tracking systems like Jira). The role requires a structured approach to testing, including planning, executing, and documenting test cases and reporting defects systematically.

Duration & Flexibility •

Duration 3-5 months between May and October 2026

Can be split into separate stays **of at least 6 weeks each** (for example 2 x 6-8 weeks) upon agreement.