

5.3 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, JSI, ULUS

Role title

Robotics Electrical, Control & Mechatronic Systems Engineer

Environment

Robotnik designs and manufactures mobile robots and mobile manipulators, requiring close integration of electrical, electronic, control and safety subsystems. The secondee will participate in **product and R&D engineering activities** ranging from **component selection** and **electrical design** to **control**, **prototyping** and **validation**, with tasks adapted to their background.

What you will work on

The secondee will:

- Contribute to electrical/electronic architecture and design for mobile robots and mobile manipulators, including component, sensor, actuator and power-system selection.
- Support integration and configuration of motor drives, embedded controllers, PLCs or other control hardware according to the candidate's expertise.
- Develop or adapt control and safety-related logic for robotic subsystems and prototypes.
- Perform bench and robot-level testing to validate electrical, control and electromechanical behaviour under representative operating conditions.
- Contribute to design reviews, troubleshooting and technical documentation throughout the prototyping and product-development cycle.

- Participate in team meetings and stand-ups and undertake independent tasks with clear objectives, supported by members of the RBTK team.

What you will gain

The secondee will gain:

- Practical experience in the full cycle of electrical and mechatronic system design, integration and testing on commercial mobile robotic platforms.
- Improved knowledge of motor drives, sensors, actuators, embedded/PLC control and safety-related design, according to the secondee's area of work.
- Enhanced skills in prototyping, troubleshooting and real-world validation within an industrial robotics product-development and R&D environment.

The secondee will also benefit from job shadowing, cross-functional collaboration and networking opportunities, and, where relevant, participation in knowledge-sharing activities such as internal demos or presentations.

Desired profile

- **Degree or equivalent experience in Electrical/Electronic Engineering, Mechatronics, Control/Automation or a related field, with practical experience in one or more of: electrical design, sensors/actuators, motor control, embedded systems, PLCs or power electronics.** A solid engineering foundation is needed for robotic hardware integration and validation; specific tasks can be adapted to the secondee's strengths.

Duration & Flexibility

3 to 5 months (continuous stay) between May and November 2027