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, ULUS, JSI

Role title

Electrical & Safety Systems Engineer

Environment

Our environment is ideal for an R1/R2 Researcher because our core business is the design and manufacture of mobile robots. The secondee **can** directly **apply** and further **develop** their **skills** in areas like **robotics/AI R&D**, **prototyping**, and **systems integration** by working on our current product lines or advanced R&D projects.

What you will work on

Working closely with Robotnik's engineering teams, you will **contribute** to **development** and **validation** on our mobile robot platforms:

- **Perform electrical/electronic design**, including component selection, the generation of electrical drawings, and subsequent review.
- **Execute motor controller configuration** and **testing** to optimise mobile robot motion and performance.

- **Develop** and **implement** PLC programming for critical control and safety functions.
- **Conduct** detailed **electrical testing** of integrated systems on robot prototypes
- **Contribute** to the **documentation** generation for electrical and control systems

What you will gain

By the end of the secondment, you will gain:

- **Practical experience** in **the full cycle of electrical systems design**, **integration**, and **testing** on a commercial mobile robot platform.
- **Expertise** in **advanced motor controller tuning** and the **application** of **industrial PLC programming** for **robotics control**.
- **Enhanced skills** in **prototyping** and **real-world system validation** within an industrial R&D setting.

Desired profile

We are looking for a researcher/engineer who has:

- Experience in Electrical Engineering or Control Systems, and demonstrated experience with electrical design, industrial motor controllers and PLC programming (preferably safety PLC).
- The secondee requires a strong, specialized technical background to handle high-complexity tasks like component selection, systems integration, and safety-critical motor/PLC configuration, ensuring direct contribution to R&D and prototyping efforts.
- Selection will be made based on overall fit and motivation; equivalent experience is welcome.

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.