Open position: Research engineer in Robotics at L2S, Paris-Saclay

Within the PEPR DIADEM program, the HIWAY2MAT project aims at accelerating the discovery of new materials by developing an autonomous robotic platform for materials research. In collaboration with the SPMS laboratory, we are looking for a robotic engineer to integrate new robotic equipment with traditional processes and measurement devices to automate experimental materials research.

The mission is focused on software and hardware integration of robot manipulators within the SPMS laboratory and it's experimental workflows; task scheduling and identification of bottlenecks for high-throughput production and characterization of materials samples; interfacing with standard materials data bases. Additionally, the mission includes providing technical support to researchers working on the platform; writing technical reports and user manuals; presenting and promoting the results of the experiments.

Required profile:

- Engineer in Robotics, Mechatronics, or related fields
- Experience in software and hardware integration
- Knowledge in robot manipulators, software for robotics; programming languages: Python, C/C++
- Taste for experimental research
- Speaking and writing English at the professional level

Duration: 12 months (up to 15 depending on starting date)
Starting date: as soon as possible

Location: L2S / SPMS, 3 rue Joliot Curie, 91192 Gif-sur-Yvette, France

Deadline for applications: March 31, 2024

To apply: Complete applications are to be transmitted to {Maria.Makarov@centralesupelec.fr; Pedro.Rodriguez@centralesupelec.fr} **with email subject "L2S/SPMS Robotics – (your surname)"**
Required documents:

1. Detailed curriculum vitae
2. Cover Letter
3. Names and contact details of 2 referees

References:

Rahmanian, F., Flowers, J., Guevarra, D., Richter, M., Fichtner, M., Donnely, P., ... & Stein, H. S. (2022). Enabling Modular Autonomous Feedback-Loops in Materials Science through Hierarchical Experimental Laboratory Automation and Orchestration. *Advanced Materials Interfaces*, *9*(8), 2101987.