

RESEARCH ENGINEER IN SPINTRONICS

Company: Spin-Ion Technologies **Location:** Palaiseau, France **Type:** Permanent (CDI), Full-time

Spin-Ion Technologies is a deeptech startup pioneering advanced spintronic solutions. We've developed a breakthrough ion beam platform to enable the next generation of spintronic chips powering MRAM, magnetic sensors, and neuromorphic computing technologies.

We're looking for a **versatile and driven research engineer** to help us **scale our innovation efforts and contribute broadly across R&D and business development**. This is a unique opportunity to join a growing company and play a pivotal role in shaping its trajectory.

Position Overview

We are seeking a junior-to-mid-level scientist with hands-on expertise in spintronics especially in technologies based on **Magnetic Tunnel Junctions (MTJs)** — to join our team. You will be directly involved in developing and optimizing ion beam processes to improve device performance in MRAM and magnetic sensor applications.

Beyond R&D, we are looking for a profile with **transversal interests** — someone eager to engage with partners, contribute to strategic decisions, and participate in our business growth. This is not just a lab role; it's a mission-critical position with visibility and impact.

Key Responsibilities

- Lead and execute experimental research in spintronics: fabrication, magnetic/electrical characterization, data analysis, and simulation.
- Develop and apply ion beam technology for internal R&D and and industrial projects.
- Coordinate technical collaborations with academic labs and industrial partners.
- Contribute to ideation and strategy with the internal team on advanced spintronic applications.
- Monitor emerging trends in MRAM, magnetic sensors, and neuromorphic computing to guide innovation.
- File patents and help build Spin-Ion's intellectual property portfolio.
- Represent Spin-Ion at scientific conferences through publications and presentations.
- Support broader business activities, including technical discussions with clients and partners.

Qualifications

Ideal candidates will demonstrate several of the following skills:

• Solid background in microelectronics, spintronics, MRAM, magnetic sensors, or neuromorphic technologies.

- Strong experimental experience with MTJ-based devices and magnetic/electrical characterization tools.
- Knowledge in ion beam processes.
- Fluency in data analysis (e.g. Python).
- Excellent communication skills in English.
- Strong organizational skills, project management capabilities, and team spirit.
- Flexibility and proactivity in a startup environment.

Education

- PhD (preferred) in physics, materials science, electronics, or related fields, ideally with postdoctoral experience in spintronics.
- Or Master's degree with several years of relevant industry experience.

What We Offer

- Competitive salary (> €50k, based on experience)
- Incentive plan for patents and IP contributions
- Opportunities for career advancement in a fast-growing deeptech company
- Exposure to cutting-edge international R&D collaborations
- Hybrid working options and a flexible schedule
- A supportive, passionate, and visionary team environment

If you're excited about pushing the boundaries of spintronics and want to be part of a company with both scientific depth and strategic vision, we'd love to hear from you.

To apply, send your CV and cover letter to:

dafine.ravelosona@spin-ion.com

Application Deadline: June 31, 2025

Spin-lon Technologies is an equal opportunity employer and welcomes candidates from all backgrounds.