

Postdoctoral Position in Spintronics for Neuromorphic Computing Applications

Job: Process integration – Spintronic device fabrication

Location: Silicon Valley, California (USA)

Duration: 18–24 months (fixed-term contract via V.I.E & Volontariat International Program)

Spin-Ion Technologies, a spin-off from Paris-Saclay University and the French National Center for Scientific Research (CNRS), is at the forefront of advanced manufacturing processes for spintronic devices. Our innovations drive the performance of cutting-edge technologies such as MRAM, xMR sensors, and neuromorphic circuits.

As part of a strategic partnership with a leading semiconductor company, Spin-Ion is offering an exciting process integration position to contribute to advanced research in nanoscale device processing for neuromorphic computing applications.

Role Overview

The successful candidate will work on-site at our industrial partner's Silicon Valley facility. This role involves:

- **Nanofabrication:** Hands-on processing of magnetic device arrays in a state-of-the-art research cleanroom.
- **Monitoring & Troubleshooting:** Performing measurements (e.g., SEM, AFM) during device fabrication to ensure quality and identify issues.
- **Integration Expertise:** Designing and implementing process flows, CAD/mask layouts, and managing fabrication cycles.
- **Collaboration:** Working closely with a multidisciplinary team of engineers and technicians.

Who We're Looking For

We're seeking a dynamic scientist or engineer with:

- A **Ph.D.** in Spintronics, Physics, Materials Science, Electrical Engineering, or a related field.
- Hands-on experience with nanofabrication tools and techniques.
- A proven ability to self-direct research projects and troubleshoot technical challenges.
- Strong communication and teamwork skills.
- Expertise in device integration, including CAD, mask layout, and process design.

Eligibility

This position is offered under the **V.I.E (Volontariat International en Entreprise)** program. To qualify, candidates must:

- Be under 28 years old.
- Be French or citizen of the European Economic Area (EEA).

Learn more about the VIE program: [VIE Program Information](#)

Why Join Us?

This is a unique opportunity to immerse yourself in Silicon Valley's vibrant tech ecosystem while contributing to transformative innovations in neuromorphic computing with spintronic devices. You'll gain access to top-tier resources, collaborate with industry leaders, and make a significant impact in edge AI applications.

Ready to shape the future of neuromorphic computing ? **Apply now!**

Send your CV and your letter of motivation to dafine.ravelosona@spin-ion.com