



## RESEARCH SCIENTIST POSITIONS IN NEUROMORPHIC SPINTRONICS

SPIN-ION technologies ([www.spin-ion.com](http://www.spin-ion.com)), a spin-off company from the University of Paris-Saclay/CNRS, has developed ion beam solutions to tailor the structural and magnetic properties of thin magnetic films and devices at the atomic level and improve their performance for applications to Magnetic Random Access Memories (MRAM), magnetic sensors and neuromorphic spintronics.

In order to sustain its R&D roadmap on neuromorphic technology towards state-of-the-art applications on the market, Spin-Ion Technologies offers **4 permanent research scientist positions (CDI) in neuromorphic spintronics**. The research scientists will participate in hardware and software developments toward the realization of an innovative Artificial Neural Network demonstrator implemented on a magnetic chip for future edge Artificial Intelligence systems. This project involves working with leading teams in artificial intelligence and major industrial partners.

### POSITIONS

#### **2 Hardware research scientists in spintronic devices**

#### **2 Software research scientists in neuromorphic algorithms**

Spin-Ion technologies is seeking high-level junior scientists, expert in spintronics devices with good knowledge in MRAM and/or neuromorphic computing who are willing to open new directions in applications of neuromorphic computing as well as to contribute to existing business activities within the start-up.

Candidates should be PhDs with a desirable post-doctoral experience (1-5 years). **The ability to conduct successful R&D activity in a deep tech start-up environment is essential.** The candidate must be able to:

- Demonstrate a previous productive and creative experience in spintronics and/or neuromorphic computing.
- Propose and conduct original research and have the ability to set new projects and manage research collaborations with academic and industrial partners.

While no candidate will embody every quality, the successful candidate will have experience with some of the following aspects of the project:

- Spintronics, nano-magnetism, neuromorphic computing, materials science.
- Experience in characterizations of magnetic materials and devices.
- Experience with working in an industrial environment will be valued.
- Good knowledge in MRAM technologies.
- Experience with data processing and analysis.
- Good English communication skills.
- Enthusiastic to the work and strong team spirit.
- Good at managing projects and multiple tasks.
- Ability to be proactive and flexible.
- Business acumen.

## **Inside Spin-Ion technologies**

Working at Spin-Ion Technologies will provide a great opportunity to join a talented start-up company and learn new technological and business knowledge in a very attractive working environment. Besides, the start-up team will support your career development which will include but not be limited to management and business training, etc. Your efforts and innovative ideas would be fully recognized through an incentive plan.

Spin-Ion was selected among the 10 most promising deep tech company in France in 2019 and awarded the “Grand Prix I-lab” from the French government. The start-up is hosted by the Center for Nanoscience and Nanotechnology (C2N) at Palaiseau (<https://www.c2n.universite-paris-saclay.fr/en/laboratory/presentation/>), France and benefits from very large facilities including one of the largest clean rooms in Europe. Spin-Ion technologies is located on the campus of University of Paris-Saclay (<https://www.universite-paris-saclay.fr/en>), one of the top education, research, and innovation cluster in the world.

If you are excited about the challenge of building something new and working in a start-up environment, please send **a resume and a letter of motivation** to [dafine.ravelosona@spin-ion.com](mailto:dafine.ravelosona@spin-ion.com)