

Post-doctoral position in femtomagnetism at Laboratoire de Chimie Physique – Matière et Rayonnement.

We are offering a one year postdoctoral position to study ultrafast magnetism with unprecedented time resolution (below 5 fs). Since the discovery of femtomagnetism more than 20 years ago, and despite intense research, the scientific community remains undecided on the mechanism underlying this phenomenon of significant technological relevance. The scope of this postdoc is to gather new experimental information by developing original experiments. The project will focus on the investigation of the very early stage of ultrafast magnetization dynamics in ferromagnetic alloys. The candidate will work as a scientist in a team of experts towards this goal, present the results in scientific journals and at conferences and take part in shaping this research field within LCPMR.

The candidate will benefit from the expertise of LCPMR laboratory and of our group to develop his/her project. The Laboratory of Physical Chemistry - Matter and Radiation (LCPMR) is a joint research unit between Sorbonne Université and CNRS, located on the Pierre et Marie Curie campus in Paris 5th. The expertise of LCPMR in the field of X-ray spectroscopies provides a fertile environment for studying physical and chemical systems ranging from condensed matter to atoms and molecules in gas phase. More specifically, the group “Systèmes fortement corrélés – Matériaux Magnétiques” is worldwide known for conceiving novel approaches to probe thin solid films with unparalleled accuracy.

In this context, the candidate will be fully involved in our strong collaboration with the LOA (Palaiseau, France) for all optical and high harmonics (XUV) experiments, with the Synchrotron SOLEIL (Saclay, France) and the free electron lasers FLASH (Hambourg, Germany), FERMI (Trieste, Italy) and European XFEL (Schenefeld, Germany) for XUV/X-ray experiments. He/she will interact daily with 2 senior scientist, an engineer and a PhD student that are part of the project.

The candidate should hold a PhD in physics or material science. The candidate should have strong expertise in magnetism and/or time-resolved x-ray or particles scattering. He/she should have a strong interest in development and realization of scientific instrumentation. The successful candidate has a track record for performing excellent research with autonomy and enthusiasm as well as effective written and verbal communications skills.

Details:

- 1 year contract based in Paris with a salary in a range between 2200-2500 euros net/month depending on the fellow expertise/ experience.
- Beginning date: from September to December 2019.
- Health, pension and unemployment securities included.
- Sorbonne Université is an equal opportunity employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply.

Contact: Boris Vodungbo, boris.vodungbo@sorbonne-universite.fr, +33 (0)1 44 27 66 15