





## **PostDoc position (2 years) in femtomagnetism at the Laboratoire de Chimie Physique – Matière et Rayonnement**

We have a vacant PostDoc position (2 years) for the investigation of ultrafast magnetization dynamics by combining state-of-the-art femtosecond time resolution with nanometer spatial resolution. Despite more than 20 years of intense research, the scientific community remains undecided on the mechanism underlying this phenomenon of significant technological relevance. The scope of this PostDoc is to provide novel experimental insight into these phenomena by employing original experimental techniques to investigate, for example, the role of interfaces and the relation between structural and magnetization dynamics on ultrashort time scales.

Our research group (Strongly Correlated and Magnetic Materials) is part of the Laboratory of Physical Chemistry - Matter and Radiation (LCPMR), a joint research unit of the Sorbonne Université (formerly known as University Pierre and Marie Curie) and the CNRS, which is located on the Pierre et Marie Curie campus in downtown Paris (5<sup>th</sup> arrondissement). The research groups of the LCPMR are known for their expertise in the application of advanced XUV/X-ray spectroscopy and scattering techniques for the investigation of electronic properties of matter, from atoms and molecules to condensed matter, and their dynamics. Our research group is recognized for its expertise to add spatial resolution to the investigation of ultrafast phenomena by applying resonant X-ray scattering techniques. We are also known for conceiving novel approaches to probe materials with unparalleled accuracy. To realize our time resolved experiments we have developed strong collaborations with the LOA (Palaiseau, France) for all optical and HHG experiments; the free electron lasers FLASH (Hambourg, Germany), FERMI (Trieste, Italy) and European XFEL (Schenefeld, Germany) for XUV/X-ray experiments. The PostDoc will benefit from these established collaborations for the realization of his/her research project. He/she will be part of a team consisting of a CNRS research scientist, an Assistant Professor, a Professor and 2 PhD students.

Candidates should hold a PhD degree in physics or a related discipline. A strong expertise in magnetism and/or time-resolved condensed matter experiments would be helpful. A demonstrated track record of performing excellent research with autonomy and enthusiasm is equally important as well as strong written and verbal communication's skills. Candidates should submit their CV, a letter of motivation and the name of up to three established researchers willing to provide a letter of recommendation.

## To apply or to obtain further information, please contact:

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## **Details:**

- 2 years contract based in Paris with a salary in a range between 2000-2500 euros net/month depending on the fellow expertise/ experience.
- Beginning between May and October 2018.
- Health, pension and unemployment securities are provided.