

**Job summary:**

The University of Porto, through IFIMUP-IN, Institute of Nanotechnology, offers a Post-Doc fellowship to undertake research focused on ultrafast magnetization dynamics in low-dimensional magnetic structures. Applicants should hold a PhD degree in Physics, Materials Science or related areas and have a good publication record.

**Job description:****Post-doctoral position**

A post-doctoral researcher is required to perform experimental and theoretical research using our recently developed ultrafast pump-probe apparatus. This will involve the data acquisition, analysis and modelling of experimental data on ferromagnetic and metallic nanoparticle systems. Knowledge of spin dynamics in nanostructures is fundamental, and experience with the Landau – Lifshitz formalism would be an advantage.

We expect to obtain high quality data on magnetic samples and coupled magnetic and nanostructured systems of interest in current research and applications, such as data storage media. Our state-of-the-art experimental system will have access to unprecedented temporal resolution and will allow us to explore new excitation configurations and materials.

The candidate will be expected to take an active role in the research programme, taking part in the writing of research articles and presenting results at international conferences. Duties will also involve international travel to partner laboratories within the European community. The candidate will be a self-motivated individual with good communication skills and will be expected to work both as a team member and as an independent researcher.

The post will be based at the IFIMUP-IN laboratory (University of Porto), which is part of a national associate laboratory. Informal enquiries are welcome and can be made by e-mail to Drs. David S. Schmool ([dschmool@fc.up.pt](mailto:dschmool@fc.up.pt)) and Helder Crespo ([h Crespo@fc.up.pt](mailto:h Crespo@fc.up.pt)).

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