

PhD Fellowships

in Nanoscience



A PhD fellowship, associated to the Severo Ochoa Centres of Excellence accreditation programme, is available to work on the physics of two dimensional materials at the Catalan Institute of Nanoscience and Nanotechnology (ICN2) which is located 30 minutes north of downtown Barcelona, Spain (www.icn.cat). The project will start in January 2016, although other dates can be considered; its expected duration is 4 years.

Candidate's profile

Applicants must show motivation, excellent disposition towards challenging research problems and a good level of the English language. A strong background on solid-state physics and experience in experimental methods (electric transport) will be valued. A completed degree in Physics at the Master level (or *Licenciatura*) is required at the time of joining ICN2.

Project *"Magnetization control using two-dimensional materials with large spin-orbit interaction"*

We will study and improve complementary techniques for manipulating the magnetization of ferromagnetic (FM) metals and FM insulators in contact with materials with large spin-orbit interaction, such as topological insulators (TIs), MoS₂, or modified graphene.

Contact: Prof. Sergio O. Valenzuela (Sergio.Valenzuela.icn@uab.cat);
<http://nanodevices.icn2.cat>

Deadline: June 22nd, 2015