

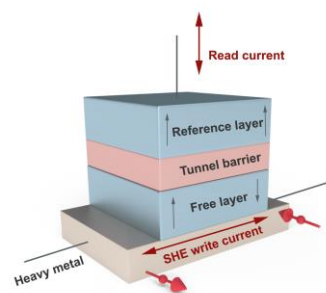
Theoretical and experimental Research PhD Fellowship

More than 60 researchers, experts in several fields of the Theoretical and Computational Chemistry, integrate the Institute of Theoretical and Computational Chemistry of the Universitat de Barcelona (<https://www.iqtc.ub.edu/en/>). The research activity carried out at the IQTCUB covers methods and computational tools development, application of several techniques of electronic structures and simulation to problems in materials science, the study of reactivity and reaction dynamics in chemical reactions as well as of biological systems and soft-matter.

The IQTCUB is currently offers FPI 4-years doctoral fellowship Ministry, through Maria de Maeztu Program. Professors **Ismael Díez-Perez** (King's College London), **Eliseo Ruiz** (Universitat de Barcelona), will lead the project hereby described.

Details

Molecular Electronics using STM to study magnetic and chiral molecular systems, magnetic 2D layers, etc...The goal is to have efficient nanoscopic magnetoresistance devices for magnetic memories and memristors (see our previous papers, Nano Letters, 2016, 16, 218 and J. Am. Chem. Soc. 2017, 139, 5768). **The PhD will focus on the measurements with the STM and the preparation of the samples for such technique.**



Requirements

- Master and a background of Chemistry, Physics, Material Science, Nanotechnology.
- Good oral and written English.

Selection process

Interested candidates please send CV, motivation letter and the names of two scholars that can provide references to Eliseo.ruiz@ub.edu, with the subject "Mdm doctoral FPI application-Magnetic Memories"

Summary of conditions:

4-year FPI contract.

Expected salaries: bridge contract (to be negotiated) and FPI contract (16.127 € 1st year until 21.599 € last year, following EPIF conditions).

The Ministry grant will start in March-April but we can pay for a previous stay in the KCL group to start as soon as possible.