

Postdoc position

Optically switchable molecules studied by scanning probe microscopy for molecular spintronic

A postdoc position is open in the “*molecular nanostructures & devices (NCM)*” group at the Institute for Electronics Microelectronics and Nanotechnologies (IEMN), a CNRS laboratory located at the university of Lille – France.

This position is open in the context of a collaborative project funded by the "Agence National de la Recherche" between our group, the UMPHy CNTS-Thales (Palaiseau), ICMMO laboratory (Orsay) and the laboratory for novel materials at Univ. Mons (Belgium). The main objective is to study the electron transport and spin transport properties of switchable molecules by scanning probe microscopes (in UHV, 1.5K, 3T).

We are looking for a highly motivated PhD student with a master degree in condensed matter physics, materials science, nanoscience or a related discipline and a strong interest for molecular materials, nano-fabrication, scanning probe microscopy and interdisciplinary research. The position requires a good autonomy and initiative to work in a multidisciplinary area. Good communication skills (written and oral) in English are also mandatory.

The “molecular nanostructures & devices” group is mainly interested in the electronic properties of organic nanostructures and molecular-scale electronics devices. IEMN (www.iemn.fr) is a widely recognized nanotechnology research centres in France with world-class clean-room equipments, electrical characterization and simulation capabilities, near-field scanning probe platform. Our group is well equipped with a platform for "materials and organic devices". We have a large experience for molecular materials and nano-devices fabrication and characterization. For more details: www.nanomol.wordpress.com

The position is funded for 1 year (renewable for 1 year).

More detail and to apply, send by e-mail: a detailed curriculum vitae, a letter of motivation, PhD diploma with referee's reports and contact details of two referees to Dr. Stéphane Lenfant: stephane.lenfant@iemn.univ-lille1.fr