



CENTRE D'ÉLABORATION DE MATÉRIAUX ET D'ÉTUDES STRUCTURALES
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE Unité Propre 8011

29, rue Jeanne Marvig, Toulouse, France



Post-doc position in organic chemistry

ORQUID: ORganic QUantum Integrated Devices

The ORQUID ERA-NET project objectives are to use single organic molecules in photophysical experiments to a) interact with light in waveguides and cavities to generate and detect single photons. b) detect single moving charges in nano-electronic circuits, c) measure nanoscale forces and displacements.

We are looking for an applicant with an excellent background in modern organic synthesis to design and prepare molecular chromophores for these experiments. Substantial experience in common laboratory techniques (handling of air and moisture sensitive reagents, liquid chromatography purification, proton and carbon NMR, MS, etc.) is necessary.

Good written and verbal communication skills in English are required and strong desire and ability to work in a multidisciplinary environment are essential.

The NanoSciences group (<http://www.cemes.fr/GNS?lang=en>) is a multidisciplinary team involving chemists, surface physicists and theoreticians. Our objective is to achieve a complex function using the smallest possible number of atoms or molecules.

The position is opened for one year, with possible extension, starting mid-2018. Please send us a CV (including birth date), a cover letter describing research accomplishments, a list of publications, two letters of recommendation to be sent directly to the email below. For additional information on the project and the working environment, feel free to contact us: *André Gourdon - E-mail: andre.gourdon@cemes.fr*

Closing date for application: April 1st, 2018.

ORQUID Partners:

- Costanza Toninelli, Coordinator, Italy (CNR)
- Michel Orrit, Netherlands, Universiteit Leiden (LEI)
- Frank Koppens, Spain, The Institute of Photonic Sciences (ICFO)
- Wolfram Pernice, Germany, Westfaelische Wilhelms-Universitaet Muenster (WWU)
- Ed Hinds & Alex Clark United Kingdom, Imperial College of Science Technology and Medicine (IMP)
- André Gourdon, Claire Kammerer & Andrej Jancarik, France, GNS-CEMES, Centre National de la Recherche Scientifique (CNRS)
- Bolesław Kozankiewicz & Irena Deperasinska, Poland Institute of Physics, Polish Academy of Sciences (IFPAN)