

## **Post-doctoral position in molecular chemistry (organic synthesis and coordination chemistry)**

**Title:** Magnetic anti-cancer Iron-[2-hydroxypyridine-1,2,4-triazole] agents for targeted drug delivery and bimodal imaging.

**Keywords:** Organic synthesis, coordination chemistry, magnetism, fluorescence, metals in biology.

**Host-institution:** UPMC, Institut Parisien de Chimie Moléculaire (IPCM), 4 place Jussieu, 75005-Paris

**Funding program:** LabEx Michem

**Post-doc position from:** 1/09/2017

**Duration of the position:** 12 months

**Project:** This post-doc position is associated with the LabEx Michem Sorbonne Universités within the axis *chemistry for health* dedicated to innovative research tools for targeted drug delivery in the treatment of cancer. This project aims at engineering and studying molecular multifunctional hybrid systems with both magnetic and anticancer properties providing simultaneously both magnetic resonance imaging (MRI) and active targeted drug delivery.

**Contents of work:** Experimental work in organic synthesis and coordination chemistry for the design, synthesis and characterization of new transition metal complexes based on 2-hydroxypyridine-1,2,4-triazole (N,O) tridentate ligands. Magnetic measurement and evaluation of fluorescence properties as well as biological tests on complexes will be carried out. The researcher will work in two IPCM laboratories: ChemBio and ERMMES teams (organic and coordination chemists).

**Profile of the candidate:** PhD in chemistry with a strong background in organic synthesis and knowledge and skills in coordination chemistry (synthesis under

inert atmosphere, characterization of metal complexes, reactivity studies on metal complexes). Experience in fluorescence spectroscopy will be appreciated but not mandatory. Applicants are expected to be creative, autonomous and very enthusiastic about working in an interdisciplinary and challenging research field.

**To apply:** Email your CV (with the contact details of, at least, two referees) and a short cover letter describing your research interests and career goal(s), in FR or EN, to [candice.botuha@upmc.fr](mailto:candice.botuha@upmc.fr) and [rodrigue.lescouezec@upmc.fr](mailto:rodrigue.lescouezec@upmc.fr)

**Salary:** salary for postdoctoral position at the institution (~2050 €/month net salary)