



18-months postdoctoral position open on 01/11/2021
in vivo MRI for therapeutic applications of metal chelation
Institut des Sciences Moléculaires (ISM) Bordeaux, France

Position description

A 18-months postdoctoral position is available at the Institute of Molecular Sciences in Bordeaux. The position is open in the “Molecular MR Imaging” group, head Dr. Yannick Crémillieux, in the framework of the research program SEMB (Selective extraction of metals from the brain) supported by the Agence Nationale de la Recherche (ANR). The objectives of the SEMB project are to implement new strategies for metal chelation in the brain that will be applied in diseases associated with deregulation of metal homeostasis. The research project of the recruited fellow will focus on the use of MRI and MRS for assessing the efficacy and the impact of metal chelation on animal models of neurodegenerative diseases. The research fellow will work in a multidisciplinary environment including MRI physicists, neuroscientists and chemists.

Qualifications

The position is available for PhD candidates with previous experience in biomedical MRI and/or MRS. Ideally the candidate should be familiar with small animal imaging and should have the certification for animal experimentation. For this position, we are looking for an autonomous and rigorous candidate with good quality contact and relational skills.

Facilities

The experimental work will be carried out on a biomedical imaging platform (IBIO) including two small animal Bruker MRI systems (4.7 T and 7 T) a high-resolution NMR spectrometer (500 MHz), two clinical research MRI scanners (3 T) and an in vivo optical imaging platform, located on the Life Sciences and hospital campus at 10 minutes from the city center with public transportation.



Environment

Bordeaux is a 1-million urban area and hosts one of the largest university and research community in France. Located in South west of France in close proximity of the Atlantic Ocean, the city, part of the World Heritage List, offers a wide range of cultural and outdoors activities.



Salary, including social security cover, will be 2100 to 2300 € net/month depending on the level of experience.

How to apply? Interested candidates should send their detailed CV and a cover letter by email to the attention of yannick.cremillieux@u-bordeaux.fr