



Postdoctoral Position in vivo exploration of metabolism using cutting edge NMR spectroscopy approaches

*Institut des Sciences Moléculaires (ISM)
Bordeaux, France*

Position description

A short duration (6 months) postdoctoral position is available in the group of Yannick Crémillieux at the Institut des Sciences Moléculaires (UMR CNRS 5255) in Bordeaux, France. The position focus on methodological developments and applications of MRI and MRS for the investigation of metabolism in animal models. Research project are centered on dynamic metabolic investigations using NMR micro-coil detection and delivery of polarized metabolites. The candidate will work in a multidisciplinary team including biologists, physicists and MRI scientists.

Qualifications

The position is available for PhD candidates with previous experience in biomedical MRI and/or MRS and strong background in physics or engineering. Ideally the candidate will have a previous experience with NMR of hyperpolarized media and/or application of micro-coils.

Facilities

The ISM owns a dissolution DNP polarizer dedicated to MRI/MRS biomedical applications, and has access to an imaging platform including two small animal Bruker MRI system (4.7 T and 7 T) a high-resolution NMR spectrometer (500 MHz), a research human MRI (3 T), an in vivo optical imaging platform. The team is 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.

Conditions of employment

The duration of the position is 6 months and amounts to \approx 2400 € net monthly salary with support from the Agence Nationale de la Recherche and Labex TRAIL.

For more information and application please contact:
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