



**TRAIL**  
Translational Research and  
Advanced Imaging Laboratory

université  
de **BORDEAUX**

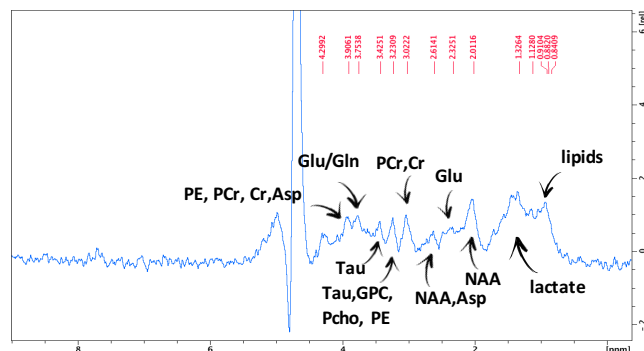
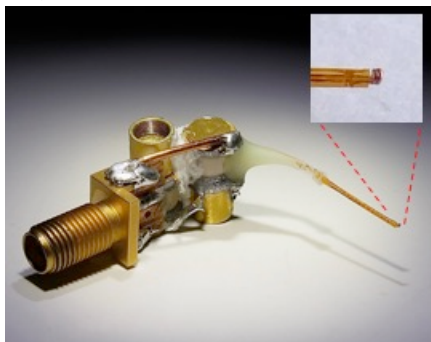


**PhD Position available**  
**implantable NMR microcoils for metabolic imaging**  
**and spectroscopy**  
**Institut des Sciences Moléculaires (ISM)**  
**Bordeaux, France**

**Position description**

A 3 years PhD position is opened in the Molecular MRI team (head Y. Crémillieux) of the Institute of Molecular Sciences (UMR CNRS 5255) in Bordeaux, France.

The PhD project will focus on the development and the application of innovative implantable NMR microcoils for MRS and MRI biomedical studies. In vivo investigations will be carried out in animal models of disease. The transfer to the clinic is part of the objectives of the PhD project. The candidate will work in a multidisciplinary environment including biologists, physicists, MR scientists and radiologists.



**Example of implantable microcoil (left) with in vivo brain spectrum (right)**

**Qualifications**

The position is opened to candidates with strong background in physics or biomedical engineering.

**Facilities**

The team is based in the IBIO (Institut de Bio-imagerie de Bordeaux) including a platform with preclinical scanners (4.7 and 7 Tesla), clinical research scanners (3 Tesla) and a dissolution DNP polarizer. The Institute 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 36-months (estimated net monthly salary of 2100 euros) with funding from the Labex TRAIL (<https://trail.labex.u-bordeaux.fr/>).

**Position closing: December 2019**

**For more information and application please contact:**

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