

Postdoctoral or Doctoral Position in quantitative muscle CEST MRI

To start in first half of 2025

A postdoctoral training position is available in the context of an ongoing CEST MRI study on 3T in skeletal muscle, in the NMR Laboratory of the Institute of Myology in the center of Paris, located at the Pitié-Salpêtrière Hospital. The candidate will work closely with the PhD student currently on the project and the permanent staff involved. The initial position is for one year. Renewal after that will be based on performance and the candidate's interest. Last-year PhD students working on CEST MRI, muscle and/or deep learning looking for an internship in another research team will also be considered.

The Institute of Myology is a renowned research institute specialized in muscle research in neuromuscular disorders. Our laboratory is specialized in the development, optimization and validation of quantitative MRI and MRS in muscle applications (skeletal muscles, heart, respiratory muscles). Most of our research is centered around a clinical 3-T Siemens system. The NMR Lab is also equipped with a small-animal 7-T Bruker system. Our team is multi-disciplinary and consists of physicists, mathematicians, engineers, chemists, technicians and clinicians. Besides methodological development, we are strongly involved in clinical studies, locally and multi-centric.

Candidates must answer to the following requirements:

- To hold a PhD in CEST MRI data analysis or PhD in use of deep learning on quantitative MRI
- Have excellent Matlab/Python programming skills
- Have strong skills in scientific peer-reviewed journal article writing

Other skills that are considered:

- Prior experience in the muscle MRI field
- Knowledge of pulse sequence programming experience on Siemens/Bruker scanners

Information on our lab and the institute can be found at:

<https://www.institut-myologie.org/en/recherche-2/neuromuscular-investigation-center/laboratoire-rmn/>

Interested individuals should send a CV and a short cover letter to:

Harmen Reyingoudt, PhD

NMR Laboratory

Neuromuscular Investigation Center

Institute of Myology

Paris

h.reyingoudt@institut-myologie.org