



**Postdoctoral Position
Diffusion MRI at 7T in focal epilepsy
Aix-Marseille University, Marseille, FRANCE**

The Center for Magnetic Resonance in Biology and Medicine (CRMBM UMR 7339, <http://crmbm.univ-amu.fr/>) is seeking a motivated postdoctoral researcher with a strong background in brain diffusion MRI for a 24-month period (contract: 12 months + renewal of 12 months). The successful applicant will work in the field of brain diffusion MRI – tractography (connectome) at 7T and 3T in patients with drug-resistant focal epilepsy in relation to individual virtual patient modeling. More specifically, this work will be part of an ancillary study within the framework of the national project EPINOV (Improving EPilepsy surgery management and prognOSis using Virtual brain technology) (<http://www.epinov.com>).

Qualification

The applicant should hold a PhD degree or equivalent experience and have a strong background in brain diffusion MRI, in particular in data processing, analyses and modeling. An experience in multimodal MRI and ultra-high field MRI will be a plus.

Context - Environment

EPINOV gathers clinicians, researchers, engineers and industrial partners in a national consortium to improve the treatment of epilepsy through the use of large-scale modeling of epileptogenic networks using individual patient data (particularly connectome from diffusion MRI) to better guide surgical strategies. The successful applicant will work on an ancillary project aiming to study the potential contribution of diffusion MRI at 7T to better define epilepsy as well as the individual computational model (<http://www.thevirtualbrain.org>).

The successful applicant will be based at the CRMBM hospital site within the university Hospital La Timone in Marseille, on the health campus of Aix-Marseille University. This clinical research site (CEMEREM) hosts 3 MRI equipment dedicated to research, including one of the few 7T MRI in a clinical environment worldwide. He or she will benefit from a multidisciplinary environment in close connection with the Institute of Systems Neuroscience (<http://ins.univ-amu.fr/>).

Contact

Applications including a cover letter, curriculum vitae and the names of two referees should be sent by October 15th 2017 to: maxime.guye@univ-amu.fr
For inquiries please use the same email address or contact Prof. Maxime Guye (+33491384807)