Two post-doctoral researchers in ultra-high field MRI and MRS

Advancing magnetic resonance spectroscopy: towards a sensitive tool targeting neurometabolic alterations in psychiatric disorders

Together with Center for Psychiatric Neuroscience, Department of Psychiatry, Lausanne University Hospital (CHUV), we are looking for two full-time post-doctoral researchers to join an interdisciplinary research team who will be developing advanced magnetic resonance spectroscopy/imaging methods on a 7T human MRI scanner and a 14.1T preclinical MRI scanner, and apply them to investigate neurometabolic biomarkers for psychiatric disorders.

Skills:

Your qualifications, previous experience and background:

- A PhD degree in engineering, physics, electrical engineering, computer science, neuroscience, or MR neuroimaging related fields
- Excellent knowledge of MR physics and programming skills in C/C++, MATLAB or Python are required.
- Experience in MR sequence programming (IDEA, for the 7T position), acquisition and data processing on a preclinical or clinical scanner, functional MRI or MRS acquisition/development are desired.
- English proficiency necessary, French knowledge is a plus

Supervisors:

- Dr. Lijing Xin, CIBM MRI EPFL-AIT https://people.epfl.ch/lijing.xin
- Prof. Kim Do, CNP-CHUV https://www.chuv.ch/fr/psychiatrie/dp-home/recherche/centres-et-unites-de-recherche/centre-de-neurosciences-psychiatriques-cnp/unite-de-recherche-sur-la-schizophrenie-urs/equipe-1/kim-q-do

Collaborators:

- Dr. Ines Khadimallah, CNP-CHUV

We offer:

- A dynamic, interdisciplinary, and international team of very motivated people.
- A stimulating working environment
- Access to cutting-edge technology and state-of-the-art resources.

How to apply:

Please send your CV, two references and a motivation letter to lijing.xin@epfl.ch

Location: EPFL, Lausanne, Switzerland
Start Date: Mar-Oct 2022
Duration: two years
About CIBM

The CIBM Center for Biomedical Imaging was founded in 2004 and is the result of a major research and teaching initiative of the partners in the Science-Vie-Société (SVS) project between the Ecole Polytechnique Fédérale de Lausanne (EPFL), the Université de Lausanne (UNIL), Université de Genève (UNIGE), the Hôpitaux Universitaires de Genève (HUG) and the Centre Hospitalier Universitaire Vaudois (CHUV), with the generous support from the Fondation Leenaards and Fondation Louis-Jeantet.

CIBM brings together highly qualified, diverse, complementary and multidisciplinary groups of people with common interest in biomedical imaging.

We welcome you in joining the CIBM Community.