

Location: EPFL, Lausanne
Start Date: 1st March 2022
Duration: two years

Post-doctoral researcher 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 (CHUV), we are looking for a full-time post-doctoral researcher to join an interdisciplinary research team that will be developing advanced magnetic resonance spectroscopy/imaging methods on a 7T human 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), 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

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.

cibm.ch