

Postdoctoral fellow in MRI

Location: University of Geneva

Dates/Duration: December 1st 2022, Full time position

Clinical MR applications

The Center for Biomedical Imaging (CIBM) at the University of Geneva is seeking a full-time postdoctoral MR physicist to develop clinical MR applications with a focus on advanced accelerated MRI together with motion compensation. The main applications, but not limited to, will be on high-resolution fast metabolic mapping and neuro-oncology.

High level knowledge of MR-physics and pulse sequence programming (IDEA), well-developed computational skills, creative problem solving and excellent communication skills are required to work in a highly interdisciplinary environment.

The appointee will work primarily with the 3T CIBM system in Geneva (Prisma, Siemens) and will have the opportunity to extend the application on a Siemens 7T Terra system located at the Campus Biotech in Geneva. The post-holder will benefit from a very rich research environment including CIBM faculties (www.cibm.ch), Siemens Innovation Hub in Lausanne, and the University Hospital of Geneva (HUG).

Duties and Responsibilities

- Development of MR pulse sequences and reconstruction algorithms (focus: motion insensitive acquisition, cartesian and non-cartesian compressed sensing)
- Implementation of novel techniques in clinical applications such as epilepsy, newborn imaging, stroke or tumor imaging
- Support of collaborative projects in the framework of the CIBM
- MR protocol optimization, teaching and training of the MRI staff and students
- Interaction and communication with scientific, medical and industrial partners of the CIBM

Qualifications

- Ph.D. or equivalent, preferably in MR physics, Biomedical imaging/engineering or related field
- At least 4 years experience in MR physics, pulse sequence programming (IDEA is a plus) Programming abilities with Matlab, C and C++
- Excellent communication skills
- Strong publication record
- Experience in signal/image processing

General

Full time position

- Starting on December 1st 2022
- Annual renewal

How to apply: Applicants should send by email a CV, motivation statement, publications and at least 2 reference letters to: Prof Francois Lazeyras, Head, CIBM MRI HUG-UNIGE Clinical MR Imaging Section. Francois.Lazeyras@unige.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.

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