

**Location :** Campus Biotech, Geneva  
**Start Date:** Spring 2022  
**Duration:** Annual renewal

# Postdoctoral researcher in ultra-high field MRI

## Advancing ultra-high field (7T) MRI technology and methods

Together with the Campus Biotech in Geneva, the CIBM is installing a new ultra-high field (7T) MRI facility for state-of-the-art human neuroimaging. The endeavour is also established through a close partnership with Siemens Healthineers.

We are looking for a full-time MR physicist to join a dedicated research team that will be developing new acquisition/reconstruction/processing methodologies for the 7T MRI. Depending on your core expertise and the fit in the team, topics of interest may include coil design and optimization, sequence development, ultra-high resolution imaging (e.g., laminar fMRI), brain and spinal-cord imaging, advanced applications in cognitive and clinical neurosciences.

The team will be supervised by

- Prof. Dimitri Van De Ville, Head of CIBM MRI EPFL Section and CIBM SP EPFL-UNIGE Section
- Prof. François Lazeyras, Head of CIBM MRI HUG -UNIGE Section
- Dr. Tobias Kober, Director MR R&D Switzerland - Advanced Clinical Imaging Technology Siemens Healthineers

In addition, the candidate will benefit from a very rich research environment provided by faculty of the CIBM founding institutions, including, but not limited to, Prof. Matthias Stuber (CHUV/UNIL), Prof. Michael Unser (EPFL), Prof. Jean-Philippe Thiran (EPFL/UNIL), Dr. Meritxell Bach Cuadra (CHUV/UNIL), Prof. Patrik Vuilleumier (UNIGE) and Prof. David Sander (UNIGE).

### Skills:

Your qualifications, previous experience and background:

- A PhD degree in engineering, physics, electrical engineering, computer science, or related fields
- Demonstrated previous experience in different aspects of MRI acquisition/reconstruction/processing is required
- Good knowledge of advanced programming environments relevant to expertise (e.g., IDEA, Python, Matlab)
- English proficiency necessary, French knowledge is a plus

### 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 [Dimitri.VanDeVille@epfl.ch](mailto:Dimitri.VanDeVille@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.**

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