



Postdoctoral Fellowship in Ultra High Field MRI

at the University Hospital in Bern, Switzerland

Job description: The position for 2 years will focus on a project funded by the Swiss National Foundation that aims for the development of MR sequences using parallel Transmit techniques accounting for signal inhomogeneities related to the field strength of 7T. The primary application in the context of the project is related to flow-sensitive MRI in intracranial vessels.

Requirements: The candidates need to have a PhD degree in Physics, Biomedical Engineering, Electrical Engineering, or a related field. Excellent knowledge in the field of MRI with a publication record in the area of MRI research is expected as well as strong programming skills, preferably in C++ and Matlab. Experience with MR pulse sequence development (preferably Siemens) and in Ultra High Field MRI is highly advantageous. The candidate should be self-motivated, enthusiastic and able to work independently in a collaborative team.

Research environment: The Inselspital Bern, founded in 1354, is one of five University Hospitals in Switzerland. The project will be housed in the Department of Diagnostic, Interventional and Pediatric Radiology at the University Hospital Bern and conducted in collaboration with the Department of Neuroradiology. MRI scans will be performed at the recently established Translational Imaging Center (TIC) of the Insel-SITEM (Swiss Institute for Translational and Entrepreneurial Medicine) Bern. The infrastructure for MRI research at TIC consists of a Siemens 3T Prisma and a 7T Terra system. The candidate will have the opportunity to work in an interdisciplinary research environment with other MR physicists, radiologists, and neuroradiologists.

Bern: The capitol of Switzerland attracts people from all over the world due to its picturesque old town, an UNESCO world heritage site since 1983. In the range of sight from Bern, one of the most spectacular mountain landscapes in the Alps, the natural world heritage site Swiss Alps Jungfrau-Aletsch, are towering above green meadows.

Application: Please email your application letter, CV, and contact information of references to PD Dr. Bernd Jung, bernd.jung@insel.ch. The position and review process will be open until filled.