Post-doctoral student in MRI physics (100%)

The Translational Imaging in Neurology (ThINk) Basel group is seeking a highly motivated candidate (PhD degree required) with a strong background in MRI physics and an interest in biomedical applications (starting date June 1\textsuperscript{st} 2018).

Your tasks

The candidate will be involved in the \textit{INSIDER} (Imaging axonal degeneration and Repair in Multiple Sclerosis) study and will develop advanced MRI protocols for both in vivo and post mortem MRI, including myelin mapping, relaxometry, magnetization transfer imaging and multi-shell diffusion MRI. The candidate will work under the common supervision of the head of the ThINk Basel group (C. Granziera) and the head of the Medical Physics unit (O. Bieri) at University Hospital Basel and University of Basel.

Major tasks will consist in:

- MRI sequence programming,
- MATLAB programming,
- Quantitative MRI reconstruction,
- Scientific writing

Your profile

The future postdoctoral student is expected to have:

- a PhD degree in physics or biomedical engineering
- a strong interest in biomedical applications
- good organizational and communication skills in English (German is an asset)

The candidate will be involved in a highly multi-disciplinary environment that includes physicists, engineers, mathematicians, and medical doctors. We expect the candidate to be open to new challenges and able to take initiatives.
We offer you

- The candidate will have the chance to work in a dynamic and international environment with state-of-the art equipment and software for developing your scientific skills and creativity.

- Enrolment in the activities of the Biomedical Engineering department at University of Basel

- Further services and interdisciplinary training opportunities at University of Basel and Basel University Hospital.

- A competitive salary by international standards according to the guidelines of the University of Basel.

- Basel is a vibrant cultural city on the Rhine River in northwest of Switzerland. Located where the Swiss, French and German borders meet.

Contact

In case of interest, send your CV and a motivation letter to cristina.granziera@usb.ch and please do not hesitate to reach out with us for further enquiries.