

PhD Student in MRI Methodology

At the joint **Institute for Biomedical Engineering (IBT)** of the ETH Zurich and University of Zurich, one research focus is on imaging techniques based on magnetic resonance (MRI). With more than 50 employees and in close collaboration with industrial partners, we develop new MRI methods from basic physics to engineering solutions and medical applications. In the Magnetic Resonance Technology and Methods group (head Prof. Klaas Prüssmann), we are looking for a Physicist or Engineer to be employed as a PhD student.

Job description

The aim of this position is to strengthen pioneering efforts in MRI of tissues and tissue components with very short-lived resonance signals. Current advances in this area promise to expand the scope of MRI to solid tissues and macromolecules to which it has traditionally been blind, such as myelin or collagen. Gaining noninvasive access to these tissues has the potential to improve the quality of medical treatment for a range of diseases including multiple sclerosis and osteoporosis. The activity addresses the full breadth of this challenge, ranging from novel instrumentation to data acquisition and reconstruction strategies as well as advancing applications in basic research and medicine.

Your profile

You have

- A solid background in physics or electrical engineering (or equivalent)
- A master's degree
- Affinity to experimental tasks
- Interest in biomedical questions

You will benefit from

- Sound programming skills
- Ability to work in a self-dependent, proactive and targeted manner
- Creativity, commitment and collaborative spirit
- Good English language skills

We offer

ETH Zurich offers you an excellent infrastructure, cutting-edge research and developments, as well as a highly competitive salary. You will be part of a young and international team and you will work in an attractive location.

Curious? So are we.

We look forward to receiving your online application with the following documents:

- Letter of motivation
- Comprehensive CV
- Bachelor and masters certificates and transcripts
- List of publications if available
- Reference letters and/or contact details of referees

Please note that we exclusively accept applications submitted through our [online application portal](#). Applications via email or postal services will not be considered.

Further information about the IBT can be found on our [website](#). Questions regarding the position should be directed to Dr Markus Weiger by email weiger@biomed.ee.ethz.ch (no applications).