



## Open PhD Position in quantitative Magnetic Resonance Imaging

### at the Innsbruck PhD School for Biomedical Sciences

The PhD position is available in the research group of Ass.-Prof. Dr. Christoph Birkl at the Department of Neuroradiology at the Medical University Innsbruck, Austria. The research group focuses on the development, validation and clinical application of new quantitative MRI methods to study human brain structure and function.

The Medical University of Innsbruck is located in the heart of the Alps, providing excellent conditions for successful research at an attractive location with a high quality of life. The University has around 3,300 students and 2,100 employees and is situated within the vibrant and international student city of Innsbruck.

#### We are seeking a highly motivated PhD student with interests in one or more of the following research areas:

- Development of quantitative MRI methods for imaging the human brain
- Advanced and automated analysis of MRI data
- Post mortem experiments for validation of MRI methods
- Biophysics and neuroscience

#### We offer:

- A fully funded university assistant position over the course of 4 years
- The opportunity to work in an interdisciplinary research team
- Career-enhancing mentoring
- Full support and supervision throughout the thesis, and while working on publications and presentations
- Participation at national and international scientific conferences
- Possibility for a research exchange abroad
- Active networking with national and international researchers in the field of Magnetic Resonance Imaging

#### Your profile:

- A MSc degree in biomedical engineering, physics, informatics, mathematics, neuroscience or related fields
- Experience in one or more of the following categories:
  - Programming skills (ideally Python or Matlab)
  - Image analysis of MRI data
  - MRI physics, pulse sequence design, image and signal processing
  - Statistical analysis (ideally R)
- Curious and motivated to work in an interdisciplinary team
- High level of written and spoken English

#### Contact and Application:

Interested candidates should send a detailed CV, proof of degree, and a motivation letter (in English) to:

**Ass.-Prof. Dr. Christoph Birkl** ([christoph.birkl@i-med.ac.at](mailto:christoph.birkl@i-med.ac.at)).

Please outline your motivation for working on a PhD in the field of MRI, the earliest starting date and previous research experience. The position is available immediately.