Hertie-Institut
für klinische Hirnforschung

Postdoc Position on Translational 9.4T MRI

at the Hertie-Institute for Clinical Brain Research Tübingen
and the Max Planck Institute for Biological Cybernetics

The Hertie-Institut for Clinical Brain Research (HIH), part of the Excellence University Tübingen, is dedicated to research, treatment, and teaching focused on the diseases of the human brain. The Max Planck Institute for Biological Cybernetics (MPI-BC) is a basic science research center in the areas of neuroscience, medicine and informatics.

The HIH and MPI-BC offer together a

Postdoc Position (100%) on Translational 9.4T MRI

The position will be situated at the Research Group **Translational Imaging of Cortical Microstructure** lead by Prof. Dr. Esther Kühn at the HIH in tight collaboration with the **Department for High-Field Magnetic Resonance** lead by Prof. Dr. Klaus Scheffler at the MPI-BC, where the 9.4T MRI is situated. The Translational Imaging Research Group investigates microstructural circuits of the living human brain in health and disease with a focus on the multimodal characterization of ultra-high resolution structural, functional and vascular imaging data to better understand maladaptive brain circuits. The High-Field Magnetic Resonance Group focuses on the development and application of novel MR imaging techniques to probe the anatomical and functional microstructure of the human brain. The project focuses on cross-species (human/mice) ultra-high field MR imaging to identify mechanisms of cortical inflammation and degeneration, which will be probed in a patient cohort in collaboration with the University Clinic Tübingen.

We are searching for a passionate Postdoc to work in the intersection between basic and applied human 9.4T ultra-high field MRI research in a vibrant working environment.

Your Profile

- Completed PhD in MR Physics
- Excellent scientific track record
- Ability to program MRI sequences independently
- Strong analytical and problem-solving skills
- Dedication to establish his/her career in the intersection between human 9.4T MRI methods development and application
- Team spirit and collaborative mindset
- Position can be used to prepare an independent Postdoc / Group Leader Grant application, but this is not a requirement

We offer

- **1.5-years 100% contract with possibility for extension**
- **Internationally top-ranked research environment in basic and applied neuroscience**
- **No teaching obligations**
- **Access to 9.4T and 3T MR human scanners and 14.1T MR animal scanner**
- **Support for advanced MR-physicists (e.g., sequence design, pulse design) and MR-analyses (e.g., computational modelling)**

Interested candidates are invited to send an application with their CV, a brief description of past and and current research activities together with 2 letters of reference to:

Prof. Dr. Esther Kühn
Otfried-Müller Strasse 27
72076 Tübingen, Germany
esther.kuehn@uni-tuebingen.de

The position will be open until a convincing candidate has been found.

EBERHARD KARLS UNIVERSITÄT TÜBINGEN

Universitätsklinikum Tübingen