



Research Position in MR Spectroscopy / Imaging

The Medical Physics Group at the Jena University Hospital invites applications for a research scientist position in the field of MR spectroscopy and (functional) MRI.

As part of an interdisciplinary project funded by the German Research Foundation (DFG), modulating effects of emotion-regulating psychotherapy on brain function and functional circuits, especially in fronto-limbic networks, are investigated by MR spectroscopy (MRS) and functional MRI methods to study neurotransmitter metabolism and functional connectivity.

The research is carried out in a cooperative and highly interdisciplinary working environment with many opportunities for independent scientific work. Candidates should have a keen interest in MRS and fMRI. A degree in (medical) physics, biomedical engineering, biophysics, computer science, neuroscience, or a related discipline *with a strong background in magnetic resonance imaging and explicit prior experience in MRS* is preferred.

The successful candidate should have preferably experience and considerable interest in

- Hands-on experience of spectroscopic and imaging data acquisition
- Reconstruction and processing of MRS data, data post-processing and analysis
- Expertise in MATLAB, FSL, and FreeSurfer
- Clinical studies in neuroscience/psychiatry
- Strong written and oral English communication skills

Experience in pulse sequence programming with IDEA would be an added bonus. The initial appointment is for three years with the possibility of a renewal and subject to the availability of funds. MRI measurements will be conducted on a state-of-the-art, whole-body 3T MRI system dedicated exclusively to research.

Jena University Hospital (<https://www.uniklinikum-jena.de/en/>) is an equal opportunity employer. Women, minorities and individuals with disabilities are encouraged to apply. More information about the Medical Physics Group can be found on <https://www.uniklinikum-jena.de/idir/Arbeitsgruppen+im+IDIR/AG+Medizinische+Physik.html>

Applications should include a letter of interest, a curriculum vitae, a list of publications, a list of grants if applicable, a summary of past research experience and future research interests (max 2 pages); PhD, Bachelor/Master and High School certificates and respective transcripts; PDF copy of most recent thesis or 3 most important papers and three references (contact details only).

All materials should be sent **electronically as a single PDF** file by **October 15, 2019** to Prof. Jürgen R. Reichenbach, Head of Medical Physics Group, Department of Diagnostic and Interventional Radiology, Jena University Hospital, Germany, juergen.reichenbach@med.uni-jena.de.