

TWO DOCTORAL POSITIONS HAVE BECOME AVAILABLE

Oktober 2014

The Research Centre Jülich, a member of the Helmholtz Association of German National Research Centres, is one of the largest interdisciplinary research centres in Europe. The 5200 people strong research facility employs more than 3200 researchers and technical staff who develop technologies in the areas of health, energy, and climate. The centre is also home to a new 9.4T whole-body MR-PET scanner that has been installed at the Institute for Neuroscience and Medicine-4. This scanner, which is unique worldwide, is capable of the simultaneous acquisition of MRI and PET data sets in humans. Additionally, the institute houses state-of-the-art 1.5T, 3T, 4T whole-body MR scanners and a 3T MR-PET scanner. These facilities are complemented by a 9.4T animal scanner also based on the Siemens software and hardware platform. A 64-channel MR-compatible EEG system (Brainproducts) is implemented at 3T and 3T MR-PET.

In the framework of an EU-funded project TRIMAGE focussing on the development of biomarkers via simultaneous MR-PET-EEG for schizophrenia and a running pharmacologic hybrid MR-PET-EEG study at INM-4, two doctoral positions have become available.

Qualifications and skills required:

Ideally, candidates should have a master in psychology, cognitive neuroscience, applied mathematics, physics or programming or completed medical school. Physicians must hold a valid "Approbation" for Germany at the time of application. Candidates should have a strong background in neuroimaging (fMRI, MR, EEG, PET) and / or signal processing and multivariate data analysis.

Experience with software packages such as SPM, FSL and MATLAB are a prerequisite, prior experience in data acquisition and data analysis of simultaneous fMRI/EEG or PET data is advantageous.

Fluent German language skills are strongly encouraged since the job includes the close interaction with psychiatric and neurologic patients. Also for German ethics applications, applications to the BfARM and Bundesamt für Strahlenschutz fluent German is of advantage. The position is placed in an international team where team meetings and scientific presentations are routinely held in English.

The positions are for an initial period of two years with possible extensions thereafter for successful candidates.

The posts advertised are 50% positions, job sharing is due to the complexity of the given projects not possible.

The positions are being advertised in house and externally.

Vorsitzender des Aufsichtsrates
Dr. Robert G. Gossink

Vorstandsvorsitzender
Prof. Dr. med. Thomas H. Ittel

Kaufmännischer Direktor
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Salary and social benefits will conform to the provisions of the Collective Agreement for the Civil Service (TVöD). Depending on the applicant's qualifications and the precise nature of the tasks, salary grade 12 (50%) of the TVöD are envisaged. Positions are available within the framework of JARA-BRAIN, the research alliance between RWTH Aachen University and the Forschungszentrum Jülich. The contract will be placed with the Uniklinik RWTH Aachen, the positions will be mainly placed in Jülich, projects involving patients will be in part performed at the university hospital of the RWTH Aachen (distance Juelich-Aachen 35 km).

The implementation of equal opportunities is a cornerstone of our staff policy at the Forschungszentrum Jülich GmbH, for which we have received the "TOTAL E-QUALITY" award. Applications from women are therefore particularly welcome. We also welcome applications from disabled persons.

Informal discussions are strongly encouraged; please contact

PD Dr. med. Irene Neuner

ineuner@ukaachen.de or i.neuner@fz-juelich.de

Applications should be submitted electronically via email, should include a CV, relevant certificates, list of publications, a short description of research interests and two letters of recommendation. The position are open for applications.