

The University Medicine / Clinical Neurophysiology Göttingen (Germany) is seeking a

PostDoctoral Researcher
(Wissenschaftlicher Mitarbeiter)
for a “BigData” Project on structural MRI

The offered position is in the context of a recently started **inter-disciplinary project** on structural MRI in neurology and cardiology. Funding is currently available until 10/2022.

The successful applicant will work on the **setup and implementation** of **data processing** strategies of **structural MRI** in patients with **epilepsy** and **healthy controls**. This involves automated post-processing and classification of brain MRI using machine learning approaches including novel concepts of *k-space* machine learning. The aim of this project is to provide tools for large scale image processing to improve our understanding of neurological as well as cardiac function and dysfunction.

Applicants need a higher-level university degree (PhD or equivalent) in physics, mathematics, biology, biomedical engineering, medicine or other related disciplines. **Programming skills** (Matlab, Python) are essential as is previous knowledge of common **imaging toolboxes** (e.g. SPM, FSL, Freesurfer, AFNI). Machine learning skills and/or previous experiences with imaging databases (e.g. XNAT) are beneficial. Previous publications on relevant topics are expected for a successful application. Previous experience with epilepsy are beneficial but not mandatory. The applicant has to be fluent in English, both written and oral. German language skills are advantageous, but not a prerequisite.

The focus of our group is the utilization of imaging and post-processing methods to better understand the neurobiology of focal and generalized epilepsies allow individualized diagnostics and translate methodological advances into clinical applications.

The University Medical Center Göttingen is a tertiary care center. 7,900 employees work in over 65 departments and facilities to provide top-quality patient care, excellent research and modern teaching. Göttingen, the “City of Science”, is located near the center of Germany and hosts a network of scientific research facilities. Next to the University Medical Center and the Georg-August University of Göttingen, this includes five Max Planck Institutes, the German primate center, an institute of the German Aerospace Center, as well as the Göttingen Academy of Sciences.

The salary is according to German federal scale (TV-L, E13 100%). The initial contract is for one year. After successful interim evaluation, a prolongation for the full project time is available (currently 10/2022). The university is especially encouraging the application of women. Disabled applicant are preferred in case of equal qualification. The position is available immediately.

Please send a letter of motivation, CV, references and sample publication to:

Universitätsmedizin Göttingen
Klinik für Klinische Neurophysiologie
Prof. Dr. Niels Focke
Robert-Koch Str. 40
Deutschland/Germany
or via E-Mail: niels.focke@med.uni-goettingen.de
