

Postdoctoral or Research Fellowship in Clinical MRI
Department of Pediatrics and Adolescent Medicine

Description: We are seeking a full-time Postdoctoral or Research Fellow in the field of clinical MRI. Our focuses lie on the application of quantitative MRI techniques for myelin imaging and cerebrospinal fluid flow in a wide range of neurological diseases in pediatric patients. Specifically, we aim to develop reliable imaging markers for monitoring neurodegeneration and repair mechanisms in childhood white matter disorders. We offer an attractive work environment within the Göttingen Neuroscience campus. The position is embedded in the Collaborative Research Center on 'Checkpoints of Central Nervous System Recovery' (TRR274) as well as in the Cluster of Excellence on 'Multiscale Bioimaging: From Molecular Machines to Networks of Excitable Cells' (EXC 2067) with leading experts in neuroscience and advanced imaging. There are close interactions with the Max-Planck-Institutes for Experimental Medicine and Biophysical Chemistry, the German Center for Neurodegenerative Diseases (DZNE) and the Göttingen Graduate School for Neuroscience, Biophysics, and Molecular Biosciences (GGNB).

A postdoctoral fellowship will be jointly mentored by Prof. Jutta Gärtner, MD and Ass. Prof. Steffi Dreha-Kulaczewski, MD (Pediatrics) as well as Prof. Martin Uecker, PhD (computational MRI).

Responsibilities:

- Data analysis and interpretation in the field of quantitative myelin-sensitive MRI (e.g. magnetization-transfer imaging, diffusion-weighted imaging, myelin-water imaging, T1-mapping)
- Optimization of analysis protocols
- Extraction of quantitative imaging biomarkers for monitoring neuroinflammation, neurodegeneration and therapy efficacy
- Dissemination of research results, conference presentations, contribution to publications and grant applications

Requirements:

- PhD in Biomedical Engineering, Physics, Computer Science, or related fields
- Hands-on experience with quantitative MRI and image analysis

Employment will be under three-year employment contract, and renewable.

Application: Please send a CV and brief statement of research interest and experience to Dr. Steffi Dreha-Kulaczewski at: sdreha@gwdg.de.

University Medical Center Göttingen is a tertiary care center with 7,900 employees working in over 65 departments and facilities to provide top-quality patient care, excellent research, and modern teaching. It is embedded in the city's attractive network of scientific research facilities that includes in addition to the Georg-August University, five Max-Planck-Institutes, the German Primate Center, the Göttingen Academy of Sciences, partner sites of the German Center for Cardiovascular Research (DZHK), and the German Aerospace Center. At the University Medical Center Göttingen, we value diversity and equality.

