The laboratory of Prof. Dr. Dr. rer. nat. Markus Morawski at the Paul Flechsig Institute of Brain Research and Neuropathology, University Leipzig, Germany, is offering a

PhD position in an interdisciplinary DFG Priority Programme (SPP2041) in multi-modal imaging (2-3D Imaging, LSM, SPIM combined with classic histology and clearing techniques, high resolution light microscopy and electron microscopy) for the generation of the most comprehensive microstructural connectome across the adult life span in human including the short cortico-cortical fibres and their microstructural properties." (f/m/d)

In cooperation with the PIs and their teams from three different institutions (MPI-CBS, UKE, PFI) we will work closely together on developing models, methods and techniques to create a better map of the human microstructural connectome from long-range to short-association fibers using in vivo and ex vivo MRI as well as histology. The subproject “Neuroanatomy” focuses on the characterization of short association and projection fibres with advanced histology. In this project, we are awarding a PhD position to achieve a Dr. rer. nat. (German PhD) degree.

We offer an interdisciplinary, friendly and supportive work environment with in-house and external training opportunities, highly translational projects with clinical relevance in a productive work environment with international collaborations. You will work on this project in a team with 2-3 PhD students, a technical assistant, and 4 PIs.

Tasks include state of the art microscopical neuroimaging to gain structural information to the cooperation partners, application of software analysis tools (e.g. Zen, Imaris, Image J, Python) to combine and analyze the multi-modal imaging data, 3D reconstruction and co-registration with other imaging modalities as well as wet-lab work including advanced histology.

We search for a candidate from the field of life science, natural science or computer science (e.g. computational biology, bioinformatics, biology, biochemistry, pharmacy, chemistry) and fluency in English and German. The candidate should have experience in at least two of the following areas: microscopical imaging / clearing techniques / histology/ neuroanatomy. We expect willingness to acquire competences in each of these fields and will provide ample training opportunities throughout the PhD.

The position (TV-L 65 %) is available for 3 years starting March 2022.

Screening of applications will begin by February 2022 and continue until the position is filled.

How to apply. Please send your application to Ellen.Morawski-Gangloff@medizin.uni-leipzig.de

Please include the name(s) of 1 or 2 referees.

For further inquiries, please contact

Prof. Dr. Dr. Markus Morawski (markus.morawski@medizin.uni-leipzig.de)

General information: Salary is assigned according to a pay scale. Unless prevented by operational or legal reasons, full-time positions are generally open to those wishing to job share. Where two candidates are equally suitable for a post, severely disabled candidates are given priority. Employment decisions are made by the Personnel Department.