

A PhD position is available as part of a collaborative project (SFB 1436, Neural Resources of Cognition) for a 3.5 year fixed term appointment with a salary of TV-L E13 (65%) starting from March 1st, 2021. The project, B06: 'Mobilization of neural resources for temporal attention', is in collaboration between Dr. Janelle Pakan, Dr. Eike Budinger, and Prof. Toemme Noesselt as part of a new Collaborative Research Centre in Magdeburg.

The project focuses on a key component that is instrumental in cognitive performance and memory formation, the utilisation of temporal information in multisensory contexts. Your role in the project will be to investigate, by means of in vivo two-photon imaging in behaving mice and correlated high-field animal MRI, how temporal attention influences the generation, maintenance, and updating of multisensory stimulus representations. In collaboration with human MRI investigations the project will strive to directly connect principles of animal and human system physiology.

You will work at the Otto von Guericke University (OvGU), Medical Faculty in close cooperation with the Leibniz Institute for Neurobiology (LIN, Small Animal MRI Lab) and the OvGU, Faculty of Natural Sciences (Institute of Psychology). You will be part of a multidisciplinary, international, and dedicated project group that offers you a wide range of opportunities for personal and professional skill development. Magdeburg offers excellent opportunities for cognitive and systems neuroscientific research, including a vibrant and growing in vivo two-photon imaging community, several MRI facilities (from 3 to 9.4 Tesla) exclusively for human and animal research purposes, as well as an excellent, multidisciplinary scientific environment.

Your profile:

- MSc in Neuroscience, Biology, Biomedical engineering, Life sciences, or a related field
- Interest in studies on sensory systems and temporal processing across both rodents and humans
- Experience with microscopy and/or MRI techniques and interest in neuroimaging
- Familiarity with statistics and programming experience with Matlab and/or python are advantageous
- Preference will be given to candidates with a completed FELASA course (or equivalent), but willingness to work directly with animal models is a minimum requirement.

Please send any questions or your completed application documents including a motivation statement, CV, and contact information for two references to Janelle Pakan (janelle.pakan@med.ovgu.de). The position will remain open until a suitable candidate is found.

Your appointment and welfare benefits will be in line with the Collective Agreement for Public Service in the Federal States (TV-L). Equal opportunity and the compatibility of career and family form part of our HR policy. Equally qualified candidates with disabilities will be given preferential treatment.

Dr. Janelle Pakan

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