



The Leibniz Institute for Neurobiology (LIN) is an internationally recognized neuroscientific research institute and dedicated to the research on learning and memory. Our research comprises all organizational levels of the brain – from molecular and cellular processes to complex neuronal networks and behavior. In association with the [SFB 1436, Neural Resources of Cognition](#) (supported by the German Research Foundation) we are looking for a highly motivated

**PhD student position (f/m/d)
in systems neuroscience and neuroimaging**

The PhD position is available as part of a collaborative project for a fixed term appointment, initially for 3 years, with a salary of TV-L E13 (65%) starting earliest from March 1st, 2025. An extension can be made until at least Dec 31st, 2028 (in accordance with the availability of funds and individual requirements).

About the project: SFB 1436 [subproject B06](#): ‘Deployment of neural resources for temporal attention across the senses’, is a collaboration between Prof. Janelle Pakan, Prof. Eike Budinger, and Prof. Toemme Noesselt as part of an already established Collaborative Research Centre in Magdeburg (Germany). The project focuses on a key component that is instrumental in cognitive performance and memory formation, the deployment 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 behavioral and MRI investigations the project strives to directly connect principles of animal and human system physiology.

You will work at the Leibniz Institute for Neurobiology (Profs. Pakan and Budinger) in close cooperation with the Otto-von-Guericke-University (Prof. Noesselt). 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.

The candidate will be given the opportunity to develop a doctoral thesis with extensive support through the IRTG (<https://sfb1436.de/de/graduate-school/>) and the CBBS graduate program (<http://gp.cbbs.eu>).

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 MRI and/or microscopy techniques but at least general 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 your completed application documents including a **motivation statement, CV, copies of relevant certificates and contact information for two references** to bewerbung@lin-magdeburg.de stating the reference **LIN 2024/12**. Applications will be considered until the position is filled and the position will remain open until a suitable candidate is found.



For any specific questions about the position, you can contact Prof. Janelle Pakan (janelle.pakan@lin-magdeburg.de) or Prof. Eike Budinger (eike.budinger@lin-magdeburg.de).

Your appointment and welfare benefits will be in line with the Collective Agreement for Public Service in the Federal States (TV-L). The LIN is a foundation under public law and committed to a comprehensive policy of Equal Opportunities in employment and research. We welcome all applications - regardless of gender, nationality, ethnic and social origin, religion, disability, age, and sexual orientation and identity.

If you have an international degree, please also enclose a certificate evaluation from the Central Office for Foreign Education (ZAB) with your application. If you do not yet have a certificate evaluation, you would have to apply for one upon successful application. For more information, please visit <https://www.kmk.org/zab/zeugnisbewertung.html>.

By submitting your application, you consent to the processing of your personal data for the purpose of the application process. Our detailed privacy policy for applicants (m/w/d) acc. Art. 13 DSGVO on data processing in the application process will be sent on request. Your attention is drawn to the fact that no application or interview expenses can be paid. Documents will be deleted after 6 months.