

PhD Position Available – Investigating the Link Between Brain ECM Markers and Human Neurocognitive Functioning

Location: Leibniz Institute for Neurobiology (LIN) Magdeburg

Start Date: immediately



The project A05 of the Collaborative Research Center "Neural Resources of Cognition" (CRC1436) invites applications for a funded PhD position (E13, 65%).

The project focuses on the relationship between **extracellular matrix (ECM)-related markers (e.g., serum levels, genetic polymorphisms) and neurocognitive functions in humans (particularly cognitive flexibility and memory).**



We use advanced MRI techniques, particularly fMRI in conjunction with quantitative susceptibility mapping (QSM) and free-water diffusion tensor imaging (DTI) as imaging proxies for brain ECM integrity.



The project includes analysis of data from existing cohorts and the acquisition and analysis of a multimodal MRI and neuropsychological study on reward memory.



This position provides an exciting opportunity for a motivated researcher to join a vibrant academic environment and contribute to cutting-edge research at the intersection of psychology, neuroscience, and neuroimaging.

Requirements

- Master's degree in psychology, computational neuroscience, or a related field.
- Interest in cognitive neuroscience and neuroimaging as well as their integration with molecular and cellular readouts.
- Good knowledge of statistics and programming (e.g., R, Matlab, or Python).
- Proficiency in English and German (minimum B2 level in both languages).

What We Offer

- A dynamic, collaborative research environment within the CRC 1436 and its graduate program
- Access to state-of-the-art imaging facilities and interdisciplinary expertise
- Mentorship and training in advanced neuroimaging techniques and statistical analyses
- Funding for up to 4 years (until maximum 12/2028).

How to Apply

Please send the following documents as a single PDF to bjoern-hendrik.schott@dzne.de and cseidenb@lin-magdeburg.de by February 28:

1. A cover letter detailing your motivation and research experience.
2. CV, including publications (if applicable).
3. Contact information of two references.

Contact Information

For questions about the position, please contact Björn Schott (bjoern-hendrik.schott@dzne.de) or Constanze Seidenbecher (cseidenb@lin-magdeburg.de).

The LIN and the OVGU Magdeburg are committed to fostering diversity and inclusion. We welcome applications from all backgrounds.

