



Leibniz-Institut für Resilienzforschung

The Leibniz Institute for Resilience Research (LIR) gGmbH is an independent research institute aiming for a better understanding of resilience, i.e., an individual's ability to successfully adapt to stress or adversity without developing stress-related psychiatric conditions. It investigates the mechanisms that mediate resilience, develops resilience-promoting interventions and implements effective interventions in healthcare in companies, schools or universities.

The research group of Prof. Dr. Marianne Müller develops animal models to investigate the neurobiological and systems biological mechanisms of resilience. As part of the project ACCESS, we will establish transcranial ultrasound stimulation in close collaboration with the research group of Prof. Dr. Til Ole Bergmann (Neurostimulation Group; [tobergmannLab](#)) and our collaboration partner at the University of Stanford, USA (Prof. Luis de Lecea). We are looking for a postdoctoral researcher to start as soon as possible. The successful candidate will be introduced into the method of transcranial ultrasound stimulation in the de Lecea Lab, Stanford, USA for hands-on training.

Post Doc (m/w/d)

(100 % position, currently 38,5 hours/week)

limited in time until 31/12/2024. The temporary employment is based on the regulations of the Law on Temporary Employment Contracts in Science (WissZeitVG). Payment is based on EG 13 TV-UM (collective agreement of the University Medical Center Mainz). In principle, there is the possibility of part-time employment.

Your tasks include:

- Establish transcranial ultrasound stimulation in mice (Murphy KR. et al., PNAS 2022; [A tool for monitoring cell type-specific focused ultrasound neuromodulation and control of chronic epilepsy - PubMed \(nih.gov\)](#))

Your profile:

- You have a completed scientific university study in natural sciences, veterinary medicine, medicine (diploma/master's degree) or a comparable qualification and a PhD ideally in this field
- Experience with *in vivo* studies in mice
- Experience in stereotaxic brain surgery in mice
- Previous experience in Calcium imaging, *in vivo* electrophysiology or sleep research is an advantage
- You can work in a structured and independent manner. In addition, you can express yourself very well in written and spoken English.
- You enjoy working in an international research team, are flexible in your working hours and have a reliable, precise and conscientious working style.

We offer:

- a challenging, highly dynamic and science-driven working environment
- an international research environment and close interaction with the University of Stanford in this project
- flat hierarchies, responsibility and a great deal of creative freedom
- Job ticket (very good public transport connections)
- Flexible working hours
- VBL - pension scheme for non-civil servants in the public sector

For research related questions, please contact Univ.-Prof. Dr. Marianne Müller (marianne.mueller@lir-mainz.de).

Please send us your detailed application by e-mail only and in one coherent PDF file, stating your earliest possible start date **until 15.06.2023** to: recruiting@lir-mainz.de. Please state the **reference number LIR_74** in the subject line.

Women shall be given preferential consideration in recruitment in the case of equivalent suitability, qualification and professional performance, insofar as and as long as there is an under-representation. This does not apply if there are such serious reasons in the person of an applicant that they outweigh women, even taking into account the requirement for equality. Severely disabled applicants with the same qualifications will be given preference (proof required).

www.lir-mainz.de

Link to the data protection declaration of LIR gGmbH: <https://lir-mainz.de/datenschutz>