



The NeuroNetwork "Non-Invasive Deep Brain Stimulation for Motor Disorders (NeeMo)" in Magdeburg (Germany) offers for a talented, skilled and highly motivated student one

### **PhD student (f/m/d) position**

for a project covering

### **small animal magnetic resonance imaging (MRI), transcranial direct current stimulation (TDCS) and animal behavior**

for a three-year fixed term appointment with a salary of TV-L E13 (65%)

starting from January 1st, 2020.

The project is funded by the Center for Behavioural Brain Sciences (CBBS). The PhD student will work at the Leibniz Institute for Neurobiology (LIN, Small Animal MRI Lab) in close cooperation with colleagues at the Otto von Guericke University (OvGU), Medical Faculty and Faculty for Electrical Engineering. The NeuroNetwork "NeeMo" aims at the development, evaluation and optimization of a novel method for non-invasive brain stimulation using TDCS but targeting subcortical brain areas for the therapy of motor disorders such as Parkinson's disease.

### **Your role:**

During your project, you will mainly perform functional MRI and MRS (magnetic resonance spectroscopy) on rodents during TDCS using an ultra-high field small animal MRI scanner. You will also test these animals in several behavioral experiments for motor coordination. In addition, you will closely collaborate with the other network partners who use computer modelling and simulations and clinical approaches, respectively.

### **Your profile**

- a completed university degree (master, diploma or similar qualification) in neuroscience, biology, medicine or a related natural science
- some experience in small animal MRI/MRS, behavioral experiments and computer programming would be beneficial
- willingness to learn new imaging, behavioral and analysis methods
- an innovative spirit and enjoyment of working in an international team

### **We offer**

- an excellent supervision including a PhD thesis committee
- integration into the graduate training programs of the CBBS, LIN and OvGU
- excellent working conditions and opportunities for cooperation across disciplines
- state-of-the-art technical facilities

If we have sparked your interest, please send your application documents including a motivation statement, CV, copies of relevant certificates and the addresses of two references by **November 30, 2018** (preferably in the form of a single pdf document) to PD Dr. Eike Budinger ([budinger@lin-magdeburg.de](mailto:budinger@lin-magdeburg.de)) who you also may contact in case of any questions.

Your appointment and welfare benefits will be in line with the Collective Agreement for Public Service in the Federal States (TV-L). Equality of opportunity and the compatibility of career and family form part of our HR policy. Candidates with severe disabilities will be given preferential treatment if equal suitability is demonstrated.

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.

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