

TeamPrigge

Plasticity of Neuromodulatory Circuits



LIN

LEIBNIZ-INSTITUT
FÜR NEUROBIOLOGIE
MAGDEBURG

Join us - we are hiring!

PhD students:

Our new lab at the Leibniz Institute for Neurobiology in Magdeburg is looking for talented PhD candidates interested in deciphering noradrenergic circuits using state-of-art methodology. Our research encompasses several neuroscientific scales, from molecular level, through circuit level, to behavior. Our research interest is centered around neuromodulatory circuits and their adaption as well as maladaptation to the various environments. In this PhD project we are interested to understand how noradrenergic modulation effects higher-cognitive cortices (frontal cortices) and how this modulation relates to diseases such as attention-deficit or major depression. To answer these questions, we employ a wide range of techniques - opto/chemogenetics, viral-based tracing, protein and photoreceptor engineering, tissue clearing and calcium imaging and combine them in vivo as well as in vitro electrophysiology and mouse behavior.

Potential candidates should have a background in life science/neuroscience, biomedical engineering, computer science or physics. Some experience with aforementioned techniques is desirable. A computational or programming background in python or matlab is desirable, but the willingness to learn is mandatory. More important than excellent marks are curiosity and enthusiasm about science as well as critical reasoning and creative thinking.

Please send your CV, letter(s) of recommendation and a statement of your research interest to prigge@lin-magdeburg.de



Leibniz Institute for Neurobiology is a public funded research institute with a focus on learning and memory. It has around 200 employees, international-structured PhD programs and state-of-the-art equipment. It is the corner stone of Neuroscience in the region and has close ties to University & Medical Faculty, German Center for Neurodegenerative Diseases and Center for Behavioral Brain Sciences. The Institute is committed to equal opportunities and healthy work/life balance.

Magdeburg is the capital of the federal state of Saxony-Anhalt. It has a population close to a quarter of million and an active community of 15.000 students at the Otto-von-Guericke University. It is easily reachable via train from Berlin or Leipzig. Housing and living expenses are low and offer freedom for diversity.