

Cognitive Neurophysiology

Magdeburg, Germany

A PhD student position is available in the groups of Motoharu Yoshida and Janelle Pakan at Otto von Guericke University / Leibniz Institute for Neurobiology / German Center for Neurodegenerative Diseases Magdeburg, Germany. Starting date is November 2018 and the duration is 3 years.

We are looking for a highly motivated student interested in cellular mechanisms and neural computation supporting working memory.

The focus of the project will be on the dopaminergic and cholinergic neuromodulations of working memory-related persistent firing. In this project, optogenetic manipulations, anatomical analysis using retrograde tracers, and genetic and pharmacological manipulations will be combined with in vitro patch-clamp recordings. The project is a part of a collaboration between three labs, and the student will have a unique opportunity to interact with colleagues with different expertise such as two-photon microscopy, primate behavior, as well as rodent in vivo electrophysiology.

Previous lab experience in **patch-clamp recordings**, **molecular biology** and **data analysis** (programming skill) will be an advantage.

The group is multinational, and candidates of all nationalities are encouraged to apply. A master's degree or equivalent is required, and candidates must be fluent in English.

Please send (1) a letter **describing your lab experiences and techniques**, scientific interests, and earliest possible starting date, (2) a CV and (3) names of three references by October 15th, 2018, to Dr. Motoharu Yoshida or Dr. Janelle Pakan.

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