

PhD Position - University of Freiburg

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A funded PhD position (3 years) is available in the Neural Circuits and Behavior lab, headed by Johann Bollmann, to study visual information processing and motor control in the zebrafish model system.

Our research aims at acquiring a mechanistic understanding of how neural circuits in the vertebrate CNS control visually guided behaviors at the level of synapses, cells and circuits. The PhD candidate will pursue his/her project as a member of an interdisciplinary team. Specifically, the PhD project involves the application of multiphoton microscopy and visual stimulation techniques to functional circuit analysis in the zebrafish visual system. In the course of the project, the PhD candidate has the opportunity to learn state-of-the-art functional imaging methods, targeted single cell electrophysiology and quantitative analysis of visually guided behaviors (e.g. Gabriel et al, Neuron 2012, Preuss et al, Curr. Biol. 2014).

The successful candidate will be part of an interdisciplinary team in an international research environment. The Institute of Biology I also hosts the labs of W. Driever, A. Straw, D. Reiff, M. Wittlinger. The dynamic neuroscience community at the University of Freiburg (www.neuro.uni-freiburg.de) provides ample opportunity for interaction and collaboration, e.g. Freiburg Neuroscience, Bernstein Center Freiburg, Neurex Neuroscience Network (Freiburg, Basel, Strasbourg).

Requirements: Diploma or Master degree in a relevant field, e.g. neuroscience, biology, physics, biomedical engineering. Genuine interest in quantitative cellular and systems neuroscience. Practical experience related to the topic (e.g. biomedical optics, electro-/optophysiology) advantageous. Fluent in English. Practical knowledge in programming (e.g. LabView, Python, Matlab) desirable.

To apply, please send CV, a brief statement (< 1 page) of research experience and motivation, and names of 1-2 references via e-mail.

Job Information:

Closing date: 2018-09-30

Starting date: 2018-10-01

Institution: University of Freiburg

Department: Institute of Biology I

Contact information:

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