

## Multi-modal integration at different processing levels in the honeybee brain

will be available starting with the next possible date. The project is based in the Department of Behavioral Physiology & Sociobiology headed by Prof. Wolfgang Rössler, Biocenter, Univ. of Würzburg ( <http://www.zoo2.biozentrum.uni-wuerzburg.de/> ).

The PhD project focuses on fundamental aspects of multi-modal integration and interactions at different processing levels in the honeybee brain using neurophysiological techniques, mainly multi-unit recordings and neuroanatomical tools. Electrophysiological recording techniques are well established in the lab. A major focus of the PhD position will be the development of analyses of single unit and population activity. The project will be directly supervised by Dr. Martin Strube-Bloss and involves close interactions with Prof. Martin Nawrot's neuroinformatics group at the Freie Universität of Berlin.

Applicants are expected to have a Masters / Diploma in Neurosciences, Biophysics, Bioinformatics or a related field, a solid background in the analysis of neural data / neurobiology, and preferentially research experience in one or more of the following areas: neurophysiology (electrophysiology, calcium imaging), neuroinformatics and/or modelling. A strong interest in using insect models for neurophysiology and behavior is an important prerequisite.

Salary and benefits are according to public service in Germany (TVL 13 / 2) - the position is fixed for the next two and a half years and extendable. The PhD candidate will benefit from lively activities within the SFB 1047 "Insect Timing: mechanisms, plasticity and fitness consequences" located at the Biozentrum of the University of Würzburg as well as from local activities of the graduate school of life sciences (GSLs) in Würzburg supported by the German excellence initiative.

To apply, please send your CV (including research experiences etc.) and the contact addresses of two referees as a single PDF file to

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