



The Institute for Auditory Neuroscience @ Max Planck Institute of Experimental Medicine, Göttingen (Germany) invites applications for a

PhD student position in the Molecular Physiology of Hair Cell Ribbon Synapses

The successful candidate will conduct experimental research on the molecular anatomy and physiology of synaptic transmission at the inner hair cell synapses of the auditory pathway. Using state of the art electrophysiology (pre- and/or postsynaptic patch-clamp, capacitance measurements) and optical methods (uncaging, confocal, and STED imaging) in combination with genetically manipulated animals, the project targets a fundamental question in synaptic transmission and sound encoding:

What are the synaptic mechanisms diversifying the neural code in the cochlea?

We are looking for excellent and highly motivated applicants with a strong background (first degree) in physics, biology or neuroscience and, ideally, experience in biophysical techniques. Competence in electrophysiology and state of the art light microscopy will be useful. Good computational skills and the ability to work in an interdisciplinary (combining molecular, structural, physiological and theoretical approaches) and international team of researchers are required. Prior knowledge in theoretical neuroscience is welcome.

This position is supported by a DFG Grant (Collaborative Research Center 889) and the funding will be available for 3.5 years. Income is equivalent to E13/65%.

The Göttingen Campus is a leading neuroscience center in Europe hosting numerous prestigious and internationally renowned neuroscience research institutions. This includes the University, three Max Planck Institutes, the European Neuroscience Institute and the German Primate Center, as well as further collaborative research programs.

Please submit your application preferably in one single PDF document, including cover letter, CV, list of publications (if applicable), names of possible referees, and relevant certificates to ianoff@gwdg.de until February 15th, 2019.

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