

The Institute for Auditory Neuroscience of the University Medical Center Göttingen (Germany) offers a

# PhD-Student Position in Synaptic Neurosci- ence

which is funded by the German Research Foundation (DFG, SFB 1286, "Quantitative Synaptology")

limited for 3 years with a possibility for extension, 65 % of a full time position | salary according to TV-L

## About us

The University Medical Center Göttingen is a tertiary care center and offers great development potential. Its 7,400 employees work in over 65 departments and facilities to provide top-quality patient care, excellent research and modern teaching. Göttingen, "City of Science", located near the center of Germany, the University Medical Center Göttingen is embedded in the city's attractive network of scientific research facilities.

Synapses undergo striking structural and functional changes during maturation. We want to determine ultrastructural changes in synapse characteristics that arise during the conversion of an immature to a mature synapse. We focus on murine calyceal synapses of the early auditory pathway, which undergo functional changes upon the onset of hearing. We will combine different electron microscopic techniques such as electron tomography, FIB as well as SBF-SEM and high-pressure freezing to investigate the ultrastructural

changes underlying the functional changes at these synapses in detail in different age-groups.

Applicants are expected to have completed university studies in a life science discipline (MSc or diploma). Very good English skills are expected. A background in neuroscience, experience in computer based image analysis, imaging techniques such as confocal fluorescence microscopy and/or especially transmission electron microscopy is beneficial. While providing intense training on the relevant techniques we encourage growing independence in performing the work.

The candidates tasks are: Electron microscopy, Electron tomography, High pressure freezing/Freeze substitution, 3D reconstructions, Immuno labeling, Computer based imaging analysis, Volume 3D reconstructions.

Women are especially encouraged to apply. Applicants with disabilities and equal qualifications will be given preferential treatment.

We look forward to receiving your application by September 15th, 2017:

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Institute for Auditory Neuroscience  
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Travel and application fees cannot be refunded or transferred.

Please send your application only via e-mail as a PDF-file.