SFB 1286
Quantitative Synaptology

UNIVERSITÄTSMEDIZIN GÖTTINGEN : UMG

PhD position in Cellular Neuroscience

The Institute for Neuro and Sensory Physiology, University Medical Center Göttingen (UMG), Göttingen, Germany offers a position as **PhD Student** (m/f/x) starting on **01.04.2026** or as soon as possible.

The successful candidate will join a research group led by Dr. Sofiia Reshetniak working on the mechanisms regulating synaptic architecture.

Project description

Highly viewed by the German Research Foundation (DFG), this project is a part of a large collaborative research center "Quantitative Synaptology" (SFB1286), and focuses on investigation of the regulatory role of the synaptic vesicle cluster. The synaptic vesicle cluster is a key component of the presynaptic boutons, whose function is not limited to storage and release of neurotransmitter. Our previous data indicate that the synaptic vesicle cluster can be seen as a master organizer, regulating the architecture, dynamics, and function of synapses. This project aims to dissect individual aspects of this regulation, by investigating the behavior and effects of the synaptic vesicle cluster in cellular context outside of the confines of a synapse, including in non-neuronal cells. In the course of this project, the student will acquire proficiencies in basic and advanced lab techniques, including but not limited to super resolution fluorescence microscopy and live imaging, work with primary and iPSC-derived neuronal cultures, organelle transfer, immunocytochemistry and others.

We offer

- Structured PhD training through the Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences (GAUSS / GGNB)
- Payment and benefits based on the German Public Service Payscale (TV-L) guidelines
- Highly international and interdisciplinary team
- Well-equipped laboratory, including state-of-the-art imaging facility
- National and international collaborations
- Organized networking events
- Personalized supervision and support in further training.

Requirements

- Master's degree (or equivalent) in Life Sciences with a strong academic record
- Interest in Cell Biology and Neuroscience
- Experience in wet lab work
- High level of motivation and initiative, strong academic research orientation
- Communication and teamwork skills
- Fluent written and spoken English
- Data analysis and programming skills are an advantage.

Application

Send your CV, statement of interest, and university transcripts by email before **09.02.2026** to sofiia.reshetniak@med.uni-goettingen.de.