

The Cluster of Excellence „MULTISCALE BIOIMAGING: From Molecular Machines to Networks of Excitable Cells (MBExC)” invites applications for a

**PhD student (m/f/d) position  
in *in vivo* system auditory neuroscience**

available for 3 years, TV-L (E13/65%)

The newly established **Auditory Circuit lab** led by [Antoine Huet, PhD](#) at the Institute for Auditory Neuroscience, University Medical Center, Göttingen, Germany, aims to solve the integration mechanisms of the neural code in the auditory brainstem. Our current focus is to **dissect the integration mechanisms responsible for the temporal code enhancement occurring in the auditory brainstem**. Our research methods combine **optogenetics, single neuron recordings, information theory, morphology and computational modelling**.

We are looking for a new team member passionate and curious about the logic of neuronal coding and integration. We offer a stimulating and collaborative environment to accomplish a PhD.

This offer might be for you if: You enjoy solving problems and finding original solutions. You have a strong interest and ideally former experiences in system neuroscience, optogenetics, computational neuroscience or signal processing. You have good communication skills in English.

The Auditory Neural Processing Lab is part of the [Institute for Auditory Neuroscience](#) and the [Cluster of Excellence "Multiscale Bioimaging: from Molecular Machines to Networks of Excitable cells" \(MBExC\)](#). MBExC is an interdisciplinary, cross-faculty research center of the University of Göttingen. MBExC pursues a novel research approach with joint efforts in modern bioimaging, in particular photonics, molecular biosciences, neuroscience and cardiovascular research. The goal of MBExC is to decipher disease relevant nanoscale functional units in neurons, sensory cells and cardiomyocytes with the long-term goal to develop innovative therapeutic strategies for disorders affecting the heart and the brain, or both. By a multiscale bioimaging approach, MBExC aims at unraveling fundamental biological principles at an increasing level of complexity from molecular, nanoscale to network and organ levels.

**Come and join us in Göttingen!**

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

Applications should include a **motivation letter, CV** and the **contact details of at least two referees**. Please send your application only via e-mail as a PDF-file.

We look forward to receiving your application by **15th of February 2021**:

University Medical Center Göttingen - Cluster of Excellence Multiscale Bioimaging (MBExC)

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Travel and application fees cannot be refunded or transferred.