

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

PhD-student position on *in-vivo* photopharmacological stimulation of the cochlea

The focus of the work is on the use of a novel photopharmacological tool to restore activity in auditory neurons using an optical cochlear implants. The successful candidate will validate this approach of hearing restoration and characterize hearing by optical activation (photopharmacology and optogenetic), electric and acoustic of spiral ganglion neurons taking a combination of physiological, behavioural and imaging approaches. The project includes, among broader questions in auditory neuroscience, the study of temporal coding in the auditory system.

We are looking for excellent and highly motivated applicants with a strong interest in systems biology (former experiences are of advantage), chemistry and/or signal processing. Moreover former experiences in animal experimentations are of advantage (e.g. Felasa-B). The ability to work in an interdisciplinary (combining molecular, structural, physiological, and theoretical approaches) and international team of researchers is required (excellent communication skills in English are mandatory). The position is available for 3 years, 65% of a full time position (salary according to TV-L).

The Göttingen Campus is a leading Neuroscience Center hosting numerous prestigious and internationally renowned research institutions. This includes the University and its Medical Center, three life science Max Planck Institutes, the European Neuroscience Institute, and the German Primate Center. The Institute for Auditory Neuroscience & InnerEarLab is tightly integrated in the Campus with research groups hosted also at non-university institutions and runs numerous stimulating collaborations on Campus such as within the collaborative sensory research center SFB 889 (www.sfb889.uni-goettingen.de/), the Cluster of Excellence "Multiscale Bioimaging : from Molecular Machines to Networks of Excitable Cells" (<https://www.uni-goettingen.de/en/579892.html>) and beyond the Campus, such as within the Priority Program 1926 (www.spp1926.de).

Please submit your application preferably in one single PDF-document, including cover letter, CV, list of publications, names of possible referees, and relevant certificates to: antoine.huet@med.uni-goettingen.de.

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