

The research group for vegetative optogenetics is seeking a highly motivated

PhD student (f/m/d)

- Limitation: 3-year doctoral programme
- Working period: part-time 65%
- Tariff: salary according to TV-L
- Announcement published on 17.01.2019
- Vacancy from 01.04.2019
- Application deadline: 28.02.2019

The PhD student will be associated to the International Research Training Group 1816 (<http://www.grk1816.med.uni-goettingen.de/>) and will enter the PhD Program Molecular Medicine within the Georg August University School of Sciences (GAUSS).

Our research group is located in the Institute for Cardiovascular Physiology and is focusing on the development of new optogenetic approaches, their application to improve our understanding in (patho-)physiology of the heart and muscle tissue as well as to develop translational strategies to improve current treatment strategies in clinics. In her/his project, the PhD candidate will work on the translation of optogenetic laryngeal pacemaking (Bruegmann, Nat. Comm. 2015). In collaboration with the ENT department, and the Department of Microsystems Engineering (IMTEK, University of Freiburg), we will explore the feasibility of optogenetic stimulation of intralaryngeal muscles in pigs and develop fully implantable devices for illumination. One important focus of the PhD project is to characterize the reaction of the immune system to the gene transfer and expression of optogenetic proteins. The successful candidate will be trained in optogenetics, gene transfer techniques, electrophysiology, skeletal muscle physiology and immunology.

Your application should include a full curriculum vitae, a statement addressing your motivation and ability to work within a close network of different research groups. and provide the names and contact details of at least two referees.

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 **28.02.2019**:

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Please send your application via e-mail in PDF-format or via mail in copy and not in folders.