

Institute for Nanophotonics Goettingen e.V.

Department of Optical Nanoscopy

The Institute for Nanophotonics Goettingen e.V. (IFNANO) and the Cluster of Excellence "Multiscale Bioimaging: From Molecular Machines to Networks of Excitable Cells" (MBExC), University of Goettingen, Germany, invite applications for a

PhD student (m/f/d) position

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

in the field of bioluminescence imaging and microscopy. The position is available immediately.

MBExC is an interdisciplinary cross-faculty research centre and pursues a novel research approach with joint efforts in modern bioimaging, in particular photonics, molecular biosciences, neuroscience, and cardiovascular research.

The IFNANO has achieved worldwide recognition with its research projects and developments in various fields of optical technology. With more than 50 employees, application-oriented basic research and the transfer of knowledge between research institutions and industry are carried out.

At the department of Optical Nanoscopy, a new junior research group for bioluminescence imaging is being established to image living cells by the light they produce. To enable bioluminescence imaging without external substrates, the genetically encodable bioluminescence system from bacteria will be used. The focus is on the generation of new bioluminescent probes with enhanced brightness and spectral properties and their application in biomedical research. The PhD project consists in the development of bioluminescent labeling strategies to image neurons and cardiomyocytes as well as a genetically encoded calcium sensor to observe cellular activity. For further information, see <https://mbexc.de/research/new-mbexc-groups/#bioluminescence-imaging>.

Applicants should hold a Master's degree in biochemistry, biology, life science or a related subject. Women are especially encouraged to apply. Applicants with disabilities and equal qualifications will be given preferential treatment.

Please send your application in German or English language including **curriculum vitae**, **Bachelor and Master certificate** and **Master thesis** as PDF files to karriere@ifnano.de.

For additional information, please contact Dr. Carola Gregor, Institute for Nanophotonics Goettingen e.V., Hans-Adolf-Krebs-Weg 1, D-37077 Goettingen, carola.gregor@ifnano.de, Tel.: +49(0)551-5035-69.