



Institute for Nanophotonics Goettingen e.V.

Department of Optical Nanoscopy

Since its founding in 1987, the Institute for Nanophotonics Goettingen has been a pioneer in the transfer of application-oriented research between science and industry. The activities range from the development of novel laser measurement techniques, product refinement using lasers, the development of new beam sources to applications in the life sciences and medical technology.

Our group uses the light emission of living cells for imaging that is generated by the process of bioluminescence. We apply a fully genetically encodable bioluminescence system to create autonomously glowing cells and improve the brightness of this system in different types of target cells. Besides camera- and microscopy-based bioluminescence imaging methods, the use of newly developed optical fibers will be explored to detect bioluminescence signals in large specimens at greater depths. Different model samples, ranging from embedded cells to a living organism, will be used.

We invite applications for a

PhD student (m/f/d) position

The position is available from autumn 2024 and initially limited to 3 years.

Activities and responsibilities

- Development and improvement of bioluminescent probes
- Preparation of biological samples
- Bioluminescence imaging

Qualification profile

- Master's degree in biochemistry, biology, life science or a related subject

We offer

- Interdisciplinary team in a cutting-edge research area at the interface of biology, physics, medicine and materials science
- Extensive and modern equipment
- Excellent integration into the Goettingen campus

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 until 31 July 2024.

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)551-5035-45.