

Research Staff Member / PhD student (m/w/d)

For our Laser Modules Lab in the research area Photonics we are looking for a research staff / PhD Student.

(Reference number 03/20)

The research focuses on the design and application of simulation software as well as the experimental characterization of diode lasers and systems. The aim is to develop new microsystems based on near-infrared high-power diode lasers with integrated gratings and other optical components such as crystals with nonlinear properties or optical isolators. The optical and circuit design poses a particular challenge for the pulsed operation of the laser systems.

Candidates require a degree in natural sciences (Master / Diploma) in the areas of physics or electrical engineering with a focus on lasers or optoelectronics.

Work experience in the fields of diode lasers, semiconductor technology and optical resonators is beneficial. Diode laser manufacturing mandates long value chains; hence candidates should possess a high degree of organizational skills as well as the ability to work in an interdisciplinary team to successfully master the demanding research tasks. Sufficient fluency of spoken and written English is compulsory, German highly desirable. If applicable you will get the opportunity to use this work for obtaining a PhD degree.

The position can be filled immediately and is initially limited to two years.

Payment is according to TVöD (collective salary scheme for German public service). FBH is an equal-opportunity employer. Female candidates are encouraged to apply. Among equally qualified applicants, preference will be given to handicapped candidates.

Have we piqued your interest? Then we look forward to your online application. Please click on "[Apply online](#)" and submit your complete application documents by **February 21th 2020**.

If you have any questions about the application, please contact Dr. Katrin Paschke

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Profile

The Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik (FBH) within the Forschungsverbund Berlin e.V., is a leading international research institute that studies diode lasers, LEDs and microwave devices.

On the basis of III/V semiconductors, it researches and implements components and systems for applications in communications, traffic and production technology, medicine and biotechnology. It covers the entire value chain from design to ready-for-delivery systems.

For more details: www.fbh-berlin.com