

Job Advertisement

The Leibniz Institute of Photonic Technology (Leibniz-IPHT) offers the following **position (50%)** in the **Department Nanooptics**, starting **September 1st, 2021**:

PhD candidate (f/m/d)

The position is **limited for 3 years**.

The Leibniz-IPHT is a university independent research institute with close connection to the Friedrich-Schiller-University Jena and member of the Leibniz association.

Description:

This Ph.D. position is intended to support the following nanooptics related research topics. By discussing with the candidate, one of the following research topics will be selected as the primary research topic, (1) DNA origami-assisted nanoantennas, (2) chiral nanooptics, and (3) semiconducting polymer microresonators. The candidate may also propose research topics. All the topics mentioned above have already been previously researched in the department and most of the necessary research resources are available, including simulation software, optical setup, and nanofabrication facilities. These research topics require a background in physics, chemistry, and engineering. Hands-on experiences in metallic nanoparticle preparation, computer simulations, laser spectroscopy, and microscopy are particularly welcome. The selected person will perform theoretical analysis, nanofabrication, and optical characterization. They also need to prepare reports, papers, and Ph.D. thesis and share administrative tasks related to the research and the group. In addition, active participation in the discussion on other department projects and significant contributions to preparing proposals for third-party fund applications are expected.

This 3-year Ph.D. position can be extended if necessary but not more than 4 years in total.

Responsibilities and tasks:

- Ability to work independently
- Interest in working in an international research environment in a cross-disciplinary project with chemists and physicists
- Basic knowledge of the design, fabrication and characterization of nanomaterials
- Broad interest in nanooptics related research
- Basic computer programming skills, like Labview, Python, Mathematica, Matlab, etc.
- Willingness to help colleagues and to share ideas with people

Your qualification and knowledge:

- Master in Physics, Chemistry, Electrical Engineering, Optics, or related fields
- Hands-on experiences in computer simulations, or DNA-origami technology, or chiral nanooptics
- Hands-on experiences in nanofabrication, or laser spectroscopy or, microscopy
- Good English communication and writing skills

Salary:

German tariffs for public employees (TV-L).

The Leibniz-IPHT strives to increase the proportion of female employees. The compatibility of work and family is one of our central concerns. Therefore, woman are explicitly encouraged to apply.

Further information regarding the projects can be obtained from

Dr. Jer-Shing Huang, Tel. +49 3641 206 404 / Email jer-shing.huang@leibniz-ipht.de.

Please send your application electronically **with Code 2021_20** as one pdf file via Email **until August 15th, 2021** (including your CV and university interim and final certificates) to:

Leibniz-Institute of Photonic Technology Jena e. V.
Human Resources
Albert-Einstein-Straße 9, 07745 Jena / Germany
E-Mail: Personal_Abtl@leibniz-ipht.de
Code: 2021_20

Note on data protection:

By submitting your application and the accompanying documents, you consent to the processing of your personal data in connection with the application process. You may revoke this consent in writing or electronically at any time without giving reasons.

Please note, however, that a revocation of consent means that any application in progress can no longer be considered.