

Job Advertisement

The Leibniz Institute of Photonic Technology (Leibniz-IPHT) offers the following **position (50%)** in the **Department Fiber Research and Technology**, working group **Optical Fiber Materials and Structures** starting **October 1st, 2021** or at the next possible time:

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:

The working group *Optical Fiber Materials and Structures* is devoted to the study of new kinds of synthesis routes and technologies for functional materials in optics and photonics (including green, brown and preform materials for optical fibers, and their applications, e.g., in the fields of biophotonics, laser physics and sensing). Research at the group is highly interdisciplinary, covering the entire spectrum from fundamental exploration of material chemistries to real-world applications.

Tasks:

Funded with the priority program 2289 of the German Science Foundation (DFG), the project targets the generation, analysis and process model implementation of inorganic oxide hetero-aggregates. Such nanostructured aggregates are derived through gas-phase processing. The aim of the project is to understand the mechanistic role of particle-particle hetero-contacts which underlie the functionality of bulk materials fabricated from such complex oxide aggregates. The successful applicant will conduct work across the full spectrum of particle and aggregate synthesis and design, from sample preparation to material characterization and data analysis.

Your expertise and knowledge:

- Knowledge and personal experience in at least three of the following subject areas: (i) chemical synthesis of inorganic materials, (ii) physical chemistry (iii) optical materials, (iv) plasma technology, (v) particle technology
- Excellent experimental skills regarding material synthesis and sample preparation
- Initial knowledge of plasma technology and willingness to operate state-of-the-art plasma reaction facilities
- High motivation in working independently on a high-profile project
- Excellent communication skills in English (written and spoken)

Your qualification:

- Excellent master's degree in chemistry, materials science or a related field (completion of studies or certification that successful completion of studies will be achieved is expected upon commencement of the position).

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, women are explicitly encouraged to apply.

Further information regarding the project can be obtained from
Dr. Katrin Wondraczek, Tel.: 03641 / 206 223 / mail: katrin.wondraczek@leibniz-ipht.de.

Please send your application electronically **with Code 2021_23** as one pdf file via Email **until September 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_23

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.