

# Job Advertisement

The Leibniz Institute of Photonic Technology (Leibniz-IPHT) offers the following **position (50%)** in the **Research Group “Biopolymers”** starting **April 1<sup>st</sup>, 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.

### Job description:

Within the framework of a bilateral German-Russian project funded by the Deutsche Forschungsgemeinschaft (DFG) we aim to investigate novel Sn/SnO<sub>x</sub> based plasmonic substrates for the structural analysis of protein related compounds. The candidate will initially focus on the general characterization of the new nano-composites' properties for enhanced Raman spectroscopy before applying the substrates for improved structural investigations of protein misfolding.

Our group is experienced in standard and plasmon-enhanced Raman spectroscopy, in theory, instrumentation, and application. One major focus of our work is the investigation of protein structures and microorganisms with Raman spectroscopy with nanoscale lateral resolution.

### Responsibilities and tasks:

- Characterization of the Sn/SnO<sub>x</sub> substrates with spectroscopic and microscopic techniques
- Extending the instrumental setup for deep UV excitation
- Investigation of amino acids, short peptides and amyloid fibrils
- Evaluation of the experimental data, presentation of the results at national and international conferences and preparation of publications

### Your qualification:

- Master of Science in Chemistry or Physics

### Your knowledge and skills:

- Ideally practical experience in Raman spectroscopy and/or scanning probe microscopy
- Good knowledge of the English language (spoken and written)

### Salary:

German tariffs for public employees (TV-L). The period of employment is 3 years.

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 can be obtained from Dr. Tanja Deckert-Gaudig, Tel. +49 3641 948322, Email: [anja.deckert-gaudig@leibniz-ipht.de](mailto:anja.deckert-gaudig@leibniz-ipht.de).

Please send your application electronically as one pdf file via Email **until February 12<sup>th</sup>, 2021** including your CV and 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](mailto:Personal_Abtl@leibniz-ipht.de)***

**Code: 2021\_02**

**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.