

# Job Advertisement

The Leibniz Institute of Photonic Technology (Leibniz-IPHT) offers the following position (65%) in the **Research Department of Spectroscopy and Imaging** at the **Fiber Spectroscopic Sensors Group** starting at the **next possible time**:

## Doctoral Researcher in Raman Spectroscopic Gas Sensing (f/m/d)

The position is **limited to June 30, 2025**.

The Leibniz-IPHT is a university independent research institute with close connection to the Friedrich Schiller University Jena (FSU) and member of the Leibniz association. The DFG-funded Collaborative Research Centre 1076 “AquaDiva – Understanding the Links between Surface and Subsurface Biogeosphere” is an ambitious research centre at IPHT and FSU ([www.aquadiva.uni-jena.de](http://www.aquadiva.uni-jena.de)). Its integrated research training group IRTG AquaDiva is educating doctoral researchers in a structured, interdisciplinary training program and invites applications for doctoral researcher positions in various fields of research. This project aims to develop highly selective and sensitive Raman spectroscopic methods to characterize gas exchange processes.

### Job description:

We are looking for a doctoral researcher, who develops novel optical setups, performs Raman spectroscopic experiments, and is involved in interdisciplinary collaborations. You will also be writing and publishing scientific papers in peer-reviewed journals and presenting results at national and international conferences.

### Your qualification:

Excellent university degree (M.Sc.) in photonics, physics, engineering, physical chemistry or comparable field is necessary.

### Your knowledge and skills:

- Excellent experimental and technical skills are essential
- Solid knowledge of Raman spectroscopy, optics, and photonics is expected
- Interest in the development and application of new instruments and setups
- Interest in gas sensing, fiber optics, and interdisciplinary research
- Excellent English communication skills, both written and spoken, are desirable
- Enthusiasm to play an active role in the interdisciplinary research team of AquaDiva
- Highly motivated and creative individuals with scientific ambition

### We offer:

- A doctoral researcher position with the possibility of a three-month research stay abroad
- Participation in a diverse experimental and theoretical research project with a strong interdisciplinary nature
- A communicative atmosphere within an international scientific network of universities and research institutes providing top-level research facilities, equipment, and infrastructure
- A comprehensive mentoring program with supervision by a team of advisors and qualification and development measures in the frame of the IRTG AquaDiva and embedded with the Jena Graduate Academy

**Salary:**

German tariffs for public employees (TV-L).

We are a modern, internationally oriented research institute. The compatibility of work and family is one of our main concerns. We strive to increase diversity. Severely disabled people will be given preference if they are equally qualified.

Further information about scientific details of the project can be obtained from Prof. Torsten Frosch ([torsten.frosch@leibniz-ipht.de](mailto:torsten.frosch@leibniz-ipht.de)). Information regarding the IRTG AquaDiva in general can be obtained from the coordinator Dr. Anke Hädrich ([aquadiva-recruitment@uni-jena.de](mailto:aquadiva-recruitment@uni-jena.de)). More project details can be found at [www.aquadiva.uni-jena.de/Open\\_Positions.html](http://www.aquadiva.uni-jena.de/Open_Positions.html).

**Application:**

All applications should be in English and include (in one PDF file, max. size 15 MB) at least the following:

1. Cover letter (max. 1 page, describing your motivation, research interests, and relevant experiences)
2. Curriculum vitae (max. 2 pages, including contact details of at least two scientific references)
3. Scans of certificates, diplomas, and other (e.g., Master's and Bachelor's certificate – if not in English or German, please provide a translation)

Please submit your English application electronically as one pdf file (max. size 15 MB) **with Code 2021\_44** including your cover letter, CV and certificates **until 31.05.2022** (position is open until filled) **to:**

***Leibniz-Institute of Photonic Technology  
Human Resources  
Albert-Einstein-Straße 9, 07745 Jena / Germany  
E-Mail: [Personal\\_Abtl@leibniz-ipht.de](mailto:Personal_Abtl@leibniz-ipht.de)***

**Code: 2021\_44**

**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.