

# Job Advertisement

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

The Leibniz Institute of Photonics Technology (Leibniz-IPHT) offers within the European Industrial Doctorate **IMAGE-IN: Imaging infections: integrated, multiscale visualization of infections and host response** (Marie Skłodowska-Curie Innovative Training Network (MSCA-ITN-EID) of the European Commission)

## 3 positions (100%) of an Early Stage Researcher (PhD candidate) (f/m/d)

in the field of Optical Spectroscopy / Imaging / Analysis with the research topics

**Topic 1: Localizing the pathogen and monitoring host response in tissue infections (Ref. Nr. 2019\_28\_topic1)**

**Topic 2: Analysis and visualization of dynamic host responses in animal models with systemic infections by using MRI in-vivo (Ref. Nr. 2019\_28\_topic2)**

**Topic 3: Characterization of pathogenesis and treatment of infections with intracellular pathogens (Ref. Nr. 2019\_28\_topic3)**

More information about the 3 positions can be found on the homepage of the Leibniz-IPHT here:

<https://www.leibniz-ipht.de/jobs.html>

**Start:** The 3 positions should be filled **between 1 January 2020 (the earliest) until 30 June 2020 (at the latest)**.

Funding of the position is available for 3 years and comprises an attractive training curriculum with international partners.

### **Be part of the European Industrial Doctorate Network IMAGE-IN:**

The MSCA-ITN-EID IMAGE-IN project combines powerful, multiscale imaging techniques with state-of-the-art data analysis methods to gain deeper insights into the pathogenesis of infections and host response. IMAGE-IN thus provides high level training to educate the next generation of researchers who can actively advance imaging technology for medical application (e.g. to generate the basis for new diagnostic and therapeutic approaches). You will gain full insight into the medical need, the spectroscopic techniques and the skills to handle and analyse large, multidimensional data. You will be embedded into a network of research institutes in Germany and Portugal that are experts in their fields.

### **Your Qualification:**

- The successful candidate should hold a Master degree (or comparable degree) in spectroscopy, imaging, physics, (bio)chemistry, analytics, photonics or similar.

### **Desired skills and abilities:**

- Good knowledge and interest in both experimental and theoretical work.
- Interest in interdisciplinary research in the field of medicine, in particular infection research, spectroscopy/imaging and data analysis is expected.
- At least basic programming skills and the interest to advance those for the analysis of spectral and large imaging data
- Fluent communication skills in English, both spoken and written are required.

### **Requirements/Eligibility:**

Candidates will be required to meet the Marie Skłodowska-Curie Early Stage Researcher eligibility criteria: (<http://ec.europa.eu/research/mariecurieactions/>). In particular, at the time of appointment candidates must have had less than four years full-time equivalent research experience and must not have already obtained a PhD. Additionally, they must not have resided in Germany for more than 12 months in the three years immediately before the appointment.

**We offer:**

- Be part of an excellent international research team, both from academia and industry enhancing your career perspectives in both the academic and non-academic sector.
- Perform research on an exciting topic in the emerging field of biomedical imaging
- Benefit from a dedicated training programme comprising local and network-wide training activities related to the development of scientific knowledge and the enhancement of transferable skills with excellent workshops in the field of biomedical imaging, data analysis, computational tools and related topics such as Entrepreneurship in imaging infections
- Carry out secondments related to your research project with another academic and industrial partner of the network
- Receive a highly competitive and attractive salary according to regulations of Marie Skłodowska-Curie Actions, plus mobility and family allowances as applicable.

As an equal opportunity employer Leibniz-IPHT is committed to increase the percentage of female scientists and therefore especially encourages them to apply.

Informal enquiries may be addressed to Prof. Ute Neugebauer at [ute.neugebauer@leibniz-ipht.de](mailto:ute.neugebauer@leibniz-ipht.de).

The application must be accompanied with the following documents in PDF format:

- letter of motivation,
- curriculum vitae of at most 3 pages,
- transcripts of records from University/University College and copy of your degree
- list of publications (if available),
- two written recommendation letters (e.g. one by your Master thesis supervisor) and the referees contact details

Please send your application electronically as pdf file via mail **until 31<sup>th</sup> May 2020** to:

**Leibniz-Institute of Photonic Technology Jena**  
**Human Resources**  
**Albert-Einstein-Straße 9, 07745 Jena, Germany**  
**e-mail: [Personal\\_Abt@leibniz-ipht.de](mailto:Personal_Abt@leibniz-ipht.de)**  
**Code: 2019\_28\_topicX**