

Job Advertisement

The Leibniz-Institute of Photonic Technology (IPHT) offers the following **two full time position** in the research department of Fiber Optics from **01th of March 2018 until 31th of October 2020**:

Postdoctoral research assistant (m/f)

The posts are offered for the duration of three years in the first instance with the possibility of further two more years extent.

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

Topic:

We are seeking for two exceptional candidates, who would join an **ERC**-funded project LIFEGATE:

*Complexity of living matter currently poses the most adverse barrier in modern in-vivo microscopy. Fuelled by numerous branches of life sciences, the race is now to increase the penetration depth of super-resolution imaging inside living organisms. This project sets out to develop new, hair-thin endoscopic devices, sending back high-quality images from unprecedented depths of the most delicate tissues of living organisms. The team will push the fundamental and technological limits of the enabling principle - **holographic control of light propagation through multimode fibres**. This 'gate-through-life' will enable the team to deploy several prominent light-based imaging methods, including super-resolution approaches, inside freely moving animal models and ultimately human.*

LIFEGATE is hosted in modern premises of the IPHT in Jena (Germany), featuring spacious optics laboratories, in-house fibre-manufacturing facilities as well as a support by mechanical workshops.

Successful candidates will work on fundamental and technological challenges of holographic endoscopy and development of new fibres for the purposes of bio-medical imaging.

Person specification:

Candidates should have extensive previous research expertise in the area of Photonics. We are particularly interested in recruiting in one of the focus areas below:

- Complex photonics
- Fibre Optics
- Adaptive optics
- Holography
- Biophotonics
- Endoscopic imaging

Essential:

- PhD degree in physics, engineering or related discipline, with a focus on experimental optics or imaging. Candidates who are likely to complete their PhD within the period of 6 months from the closing date may also apply provided that an evidence / supervisor's testimonial is available for confirmation.
- Ability to work independently as well as a part of a team
- Very good English in speech and writing
- Interest in working on a cross-disciplinary project with bio-medical researchers.
- Good knowledge of programming for instrument control (Matlab, Labview, Python, C++)

Desirable:

- One previous postdoc period or a relevant industrial experience
- Evidence of high quality research outputs as leading author

Salary:

German tariffs for public employees (TV-L)

The IPHT strives for increase the proportion of female employees. Therefore woman are explicitly encouraged to apply.

To discuss details of these posts, informal inquires may be addressed to Prof. Tomas Cizmar, tomas.cizmar@leibniz-ipht.de

Application must include:

- Cover letter outlining the candidate's suitability for the role
- Curriculum Vitae
- Certificates
- Overview of past research activities (1-2 pages)
- Names and contact details of two references

Please send your application electronically as pdf file or via mail **until 15th of January 2018** to:

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