



Leibniz  
Universität  
Hannover

The Institute of Photonics (IOP) invites applications for the position of a

## **Research Assistant (PhD position, m/f/d) – Photonic quantum system for high-dimensional information processing (Salary Scale 13 TV-L, 75 %)**

starting the January 1<sup>st</sup> 2022 for 3.5 years.

### **Responsibilities and duties**

This project focuses on the design and implementation of integrated fiber-based high-dimensional photonic quantum systems using a time-frequency based approach for applications in information processing. The project includes the exploration of novel optical manipulation schemes in integrated devices.

### **Employment conditions**

Applicants to the position must have a relevant Diploma or Master degree, for example in physics, optical technologies, photonics and optics, electrical engineering. The ideal candidate has a strong background in optics and photonics and quantum mechanics. Knowledge in quantum information science is desirable. The candidate should have the ability and willingness to work together with experts from a broad background in science and technology. In addition, very good communication skills in English, oral as well as written, are expected.

### **Our offer**

We offer the opportunity to conduct your research projects in a creative and independent manner within an inspiring, collegial and international team. In addition, you will have the opportunity to further your personal and professional development, to present your results at international conferences and to foster scientific exchange with scientists on an international level.

The university aims to promote equality between women and men. For this purpose, the university strives to reduce under-representation in areas where a certain gender is under-represented. Women are under-represented in the salary scale of the advertised position. Therefore, qualified women are encouraged to apply. Moreover, we welcome applications from qualified men. Preference will be given to equally-qualified applicants with disabilities.

For further information, please contact Prof. Dr. Michael Kues.



Leibniz  
Universität  
Hannover

Please submit your application together with the usual documents (CV, Cover Letter, Transcripts etc.) by October 11<sup>th</sup> 2021 in electronic form to

Email: [michael.kues@iop.uni-hannover.de](mailto:michael.kues@iop.uni-hannover.de)

or alternatively by postal mail to:

**Gottfried Wilhelm Leibniz Universität Hannover**

Institute of Photonics

Nienburger Str. 17

D-30167 Hannover

<http://www.uni-hannover.de/jobs>

Information on the collection of personal data according to article 13 GDPR can be found at <https://www.uni-hannover.de/en/datenschutzhinweis-bewerbungen/>.