



Leibniz
Universität
Hannover

The Hannover Centre for Optical Technologies (HOT) invites applications for the position of a

Research Assistant (PhD position, m/f/d) – Nanophotonics design for optical quantum information processing (Salary Scale 13 TV-L, 75 %)

starting January 1st 2022. The position is initially limited until December 31st 2023. The position provides the opportunity of further academic qualification, such as a PhD.

Responsibilities and duties

The duties of this position include the theoretical design and simulation of photonic nanostructures using topology optimization approaches and novel light propagation methods for the realization of new functionalities in optical information processing. The systems should be implemented using available state-of-the-art fabrication methods. The position is within the cluster of excellence PhoenixD.

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, quantum mechanics, and programming. Knowledge in nanophotonics, computational photonics, and 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. You will also have the opportunity to participate in the PhoenixD graduate school.

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.



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For further information, please contact Prof. Dr. Antonio Cala Lesina or Prof. Dr. Michael Kues.

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

Email: antonio.calalesina@hot.uni-hannover.de or michael.kues@hot.uni-hannover.de

or alternatively by postal mail to:

Gottfried Wilhelm Leibniz Universität Hannover

HOT - Hannover Centre for Optical Technologies

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<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/>.