Technische Universität Berlin

Technische Universität Berlin offers an open position:

Research Assistant (PostDoc) - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty II - Institute of Solid State Physics
Reference number: II-644/20 (starting at 01/01/21 / until 31/12/23 / closing date for applications 06/11/20)

Working field: Applicants are expected to conduct technological and experimental work in the field of quantum nanophotonics. The tasks include the design and development of nanophotonic components based on semiconductor quantum dots and novel 2D quantum materials. The aim is to produce quantum light sources and micro/nanolasers in a controlled manner using deterministic nanotechnology methods in order to achieve optimal performance for applications in photonic quantum technology and neuromorphic computing. In addition to the technological work, (quantum) optical studies on the developed nanophotonic structures and devices form a further focus of the work. For example, experiments on entanglement distribution shall lay the foundations for the use of components in future quantum networks. Further responsibilities include the supervision of Bachelor and Master graduates and PhD students, the acquisition of third party funded projects, the management of third party funded projects, and teaching activities in advanced lab courses and seminars in nanophotonics.

Requirements: Successfully completed university degree (Master, Diplom or equivalent) and PhD in physics preferably with in-depth knowledge and experience in the development and manufacture of nanophotonic components using semiconductor epitaxy and/or modern clean room technology, in nanophotonics and in experimental quantum optics; special qualification of academic work, which is usually demonstrated through an outstanding PhD thesis; proficiency in English; experience with working in international research projects, project management and an outstanding publication record are advantageous.

Please send your application with the **reference number** and the appropriate documents (CV, certificates, a list of publications, and names and contact details of referees) **by email (in a single pdf file, max 5 MB) to reitzenstein.office@physik.tu-berlin.de**.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/ or quick access 214041.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Technische Universität Berlin - Der Präsident - Fakultät II, Institut für Festkörperphysik, Prof. Dr. Stephan Reitzenstein, Sekr. EW 5-3, Hardenbergstr. 36, 10623 Berlin

The vacancy is also available on the internet at
http://www.personalabteilung.tu-berlin.de/menue/jobs/

Zertifikat seit 2008
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