



Berlin School of
Optical Sciences &
Quantum Technologies

The Berlin School of Optical Sciences and Quantum Technologies (BOS.QT) together with Technische Universität Berlin, Freie Universität Berlin and Humboldt-Universität zu Berlin offers the following open positions:

7 Positions – Research Assistants (d/m/w), 0.75 working time, salary grade E13 TV-L Berliner Hochschulen

1st qualification phase for doctorate subject to funding approval until December 31, 2026.

To be filled immediately/ Limited until December 31, 2026/ Application deadline: March 19, 2023.

If applying, please indicate the project to which your application relates. Applications for several projects are possible (up to three), whereby a prioritization (place 1, 2, etc.) must be indicated in the application documents for the desired project.

Project 10: Research assistant for project “Advanced Monolithically Integrated Quantum-Light Sources”

At the Institute of Physics at Humboldt-University the research group “Nonlinear Quantum-Optics” lead by Dr. Sven Ramelow deals with novel approaches to generating spectrally engineered entangled photons via spontaneous parametric down-conversion. The goals of the project are related to the development of micro-integrated advanced photon-pair sources for photonic quantum information tasks. The project is carried out in close collaboration with in cooperation with the group of Prof. Janik Wolters at the DLR Institute of Optical Sensor Systems.

Department: Institute of Physics at Humboldt-University

Working field: Project work covering the whole development chain from simulations and device fabrication in clean room environment to optical studies in quantum optics laboratory for demonstrating applications in quantum information processing and communication

Requirements:

- Master degree in physics or closely related subjects is required at the starting date
- expertise in experimental optics and quantum physics
- experience in the development and realization of optical laboratory experiments
- first experience in programming of laboratory setups
- excellent knowledge of the English language

For further inquiries and information please contact Dr. Sven Ramelow (sven.ramelow@physik.hu-berlin.de).

Successful applicants* will have a graduate degree in physics or related areas (certificates of Master's, Diploma, or equivalent at the starting date) and previous experience in the above areas of work. Detailed project descriptions and requirements for each position can be found at: https://blogs.tu-berlin.de/ioap_bosqt/jobs/.

Admission to BOS.QT is possible upon successful application.

Please send your application with the project number(s) and the required documents by e-mail (in one pdf file, max. 5 MB) to the BOS.QT office: bosqt@physik.tu-berlin.de.

The following documents are required for the application:

CV with publication list, conference papers and awards (see BOS.QT CV template: https://blogs.tu-berlin.de/ioap_bosqt/jobs/); a letter of motivation; the bachelor's degree certificate and transcript of records, the Master's certificate (if issued already) and a transcript of records, a letter of recommendation, preferably from the supervisor of the Master's thesis (directly to the BOS. QT administration: bosqt@physik.tu-berlin.de); a maximum of two names (and email addresses) of people who can be contacted directly by the BOS.QT for another letter of recommendation; the master thesis (or a partial draft as a link or pdf).

By submitting your application via email, you agree to the electronic processing and storage of your data. Please note that we cannot guarantee the protection of your personal data if it is sent as an unprotected file. Please note our data protection information according to DSGVO (General Data Protection Regulation) on the homepage of the [University] [DSGVO website].

To ensure equal opportunities for women and men, applications from women with appropriate qualifications are expressly encouraged. Qualified persons with disabilities will be given preferential consideration. Technische Universität Berlin, Humboldt-Universität zu Berlin and Freie Universität Berlin value the diversity of its members and is committed to the goals of equal opportunity.

Postal address: Anja Meyer do Nascimento Pereira (BOS.QT), TU Berlin, IOAP ER 1-1, Str. des 17. Juni 135, D-10623 Berlin, Germany.

The job announcement is also available on the Internet at: https://blogs.tu-berlin.de/ioap_bosqt/jobs/.