The University of Paderborn is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we design forward-looking research, innovative teaching and the active transfer of knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,500 employees in research, teaching, technology and administration a lively, family-friendly, equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent the future!

The Hybrid Quantum Devices group and the Ultrafast Nanophotonics group at the Department of Physics (Faculty of Science) invite applications for the position of a

Research/Ph.D.-student in Nanophotonics/Quantum Photonics
(Salary level 13 TV-L)

starting at the earliest possible date. The position (75% of regular working time) entails a fixed-term contract for the duration of the Ph.D. project in the field of Nanophotonics/Quantum Photonics and is initially limited to 3 years, depending on the previous qualification. This is a qualification position within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which serves to promote a doctoral program in the field of Nanophotonics/Quantum Photonics.

Position Profile:
The Research/Ph.D. student is expected to focus in his/her research project on the fabrication and optical characterization of nanostructured materials in combination with 2D materials for applications in quantum optics, and the modeling of nano-optical systems. The position is jointly supervised by Prof. Jöns (https://physik.uni-paderborn.de/joens) and Prof. Zentgraf (https://physik.uni-paderborn.de/zentgraf) within a project of the collaborative research center CRC/TRR142 “Tailored Nonlinear Photonics” funded by the Deutsche Forschungsgemeinschaft (DFG).

Your Profile:
• Completed university degree in physics or any related engineering field (M.Sc. or comparable)
• Experience with experimental techniques (optics, solid-state physics)
• Experience in laser physics and nanofabrication techniques
• Knowledge of modelling and simulation of physical systems
• Knowledge of data analysis and programming
• Highly motivated and creative with good communication skills in English

The University of Paderborn is making efforts to increase the proportion of women in the CRC/TRR142 and therefore encourages qualified women in particular to apply. Female applicants with equal qualifications, skills, and achievements in the field will be given preferential consideration. We make personnel decisions based on qualifications, skills, and academic achievements. Severely disabled applicants and disabled applicants considered as such have priority over applicants with equal qualifications, skills, and achievements in the field who are not legally entitled to preferential consideration.

The closing date for applications is 30.11.2021. All application materials, comprising CV, certificates, and a short statement of research experience and interests should be submitted with Reference No. 4920 in electronic form (as a single PDF document) to the addresses below.

Information regarding the processing of your person data can be located at: https://www.uni-paderborn.de/en/zv/personaldatenschutz.

Paderborn University, Faculty of Science
Prof. Thomas Zentgraf
thomas.zentgraf@uni-paderborn.de

and

Prof. Klaus Jöns
klaus.joens@uni-paderborn.de