Paderborn University is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,300 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 Faculty of Science, Department of Physics, Mesoscopic Quantum Optics Group, offers up to two positions of

**Researcher/PhD student (f/m/d)**
(pay scale 13 TV-L)

starting in the autumn of 2020. The positions (75% of regular working time) entail a fixed term contract for the duration of the PhD project in the field of Integrated Superconducting Optoelectronics for Quantum Communication, and is initially limited to 3 years, depending on previous qualification (according to the German law “Wissenschaftszeitvertragsgesetz”).

**Position Profile:**

- Development and characterisation of nonlinear waveguide structures at cryogenic temperatures, combined with superconducting detectors and electronics, for tasks in quantum communication and quantum photonics technology

**Your Profile:**

- Successful completion of a Masters degree in physics (or to be completed before taking up the position)

- Experience in the following fields: integrated quantum photonics, cryogenic nonlinear optics, applications of superconducting detectors

Applications from women are particularly welcome and, in case of equal qualifications and experience, will receive preferential treatment according to state law (LGG). Qualified disabled people (in the sense of the German social law SGB IX) are also encouraged to apply.

Please send your application by **22 June 2020** with reference **4296** to:

**Jun.-Prof. Dr. Tim Bartley**
University of Paderborn
Faculty of Science
Department of Physics
Warburger Straße 100
D-33098 Paderborn

tim.bartley@upb.de

www.upb.de