



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 2,500 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!

With the Institute for **Photonic Quantum Systems (PhoQS)**, Paderborn University aims to establish an international research center in the field of photonic quantum technologies. The goal is to develop new technologies for photon-based quantum applications as well as new theoretical and experimental concepts and research approaches. The ultimate focus is on the understanding and control of photonic quantum simulators and quantum computers.

Within this scope, we invite applications for the following fixed-term position (100% of the regular working time), which will start at the earliest opportunity:

Post-doctoral researcher (f/m/d)

(salary is according to 13 TV-L)

The position is embedded in the project “**Professional training for platform-independent and photonic quantum computing (qp-tech.edu)**” of the *Bundesministerium für Bildung und Forschung (BMBF)*. Employment ends on 30.11.2024 and adheres to the legal regulations laid out in the *WissZeitVG*.

We are looking for a project leader working in Theoretical Computer Science, Mathematics, or Physics to lead the development of a specialized study program geared towards training industry partners in various aspects of quantum computation. The position is officially in the Department of Computer Science, although the project itself is under the auspices of the Institute for Photonic Quantum Systems (PhoQS). The following are examples of relevant tasks:

- Establishing communications channels with industry partners
- Organizing and hosting workshops on quantum computing for industry
- Designing and developing education content geared towards industry
- Recording educational content, and uploading/managing such content on an e-learning platform

It is expected for the successful candidate to have an established background in at least one of the following areas:

- Quantum algorithms in theory and application, broadly construed
- Quantum photonics - Theory and applications in quantum computing

Hiring requirement:

Suitable candidates have completed their Ph.D. and have demonstrated extraordinary scientific achievements after their PhD as well as proven teaching experience. Experience in the acquisition and administration of third-party funding is desirable.

Since Paderborn University seeks to increase the number of female scientists, applications of women are especially welcome. In case of equal qualification and scientific achievements, they will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Policy (LGG), unless there are cogent reasons to give preference to another applicant. Likewise, applications of disabled people with appropriate qualification are explicitly requested. This also applies to people with equal status according to the German social law SGB IX.

Please send your application including a CV (including list of publications) using the **Ref. No. 5245 by 20.05.2022** via e-mail to sevag.gharibian@upb.de.

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

Prof. Dr. Sevag Gharibian
Department of Computer Science
Paderborn University
Warburger Str. 100
33098 Paderborn
sevag.gharibian@upb.de

