



Integrated photonics plays a pivotal role in advancing photonic quantum technologies, enabling ground-breaking quantum optics experiments and building the basis for photonic quantum computing and quantum networks.

Join our cutting-edge research team to revolutionize quantum technologies. We are looking for:

- 1: A PhD student to design and operate integrated photonic circuits for networked quantum applications.
- 2: A PhD student to pioneer advanced quantum photonics experiments using large-scale integrated processors.

## You will:

- Use and develop state-of-the-art setups for characterising integrated photonic circuits and photon sources
- Test circuits and operate them on a single-photon level
- Create and characterize highly entangled photonic resource states
- Realise applications in quantum computing and networking
- Contribute to project meetings, workshops, and international conferences
- Build your foundation for future-oriented jobs in research and photonic industries

## 2 PhD positions:

Exciting Opportunities for PhD Students in quantum Photonics!

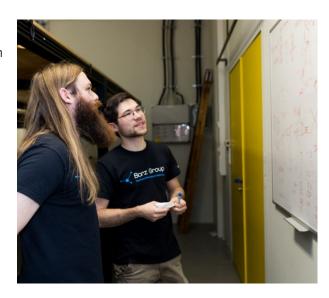
www.barzgroup.de

## You have:

- Interest in collaborative and interdisciplinary research
- MSc in Physics, or related
- Experience in experimental quantum optics and (photonic) quantum technologies
- Programming skills (Python, Mathematica, Matlab, ...)

## Be part of the future of quantum innovation—apply now! Send your application by Feb 15<sup>th</sup> 2025 with:

- Short statement of research interests (max. 1 page)
- C\/
- Certificates or transcript of records
- Contact details of three referees



The positions are fixed term and available until filled. The positions are funded (75% TVL E13). For more information:

please contact Prof. Dr. Stefanie Barz: barz@fmq.uni-stuttgart.de, www.barzgroup.de