



**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

**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)
- CV
- 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](mailto:barz@fmq.uni-stuttgart.de), [www.barzgroup.de](http://www.barzgroup.de)



**2 PhD positions:  
Exciting Opportunities for  
PhD Students in quantum  
Photonics!**

[www.barzgroup.de](http://www.barzgroup.de)