



Integrated photonics is key to scaling up photonic quantum technologies and photonic quantum processors.

We are looking for a postdoc to lead our endeavour to building integrated photonic circuits for quantum computing.

You will:

- Design integrated photonic circuits to build a photonic quantum processor
- Use and develop state-of-the-art setups for characterising integrated photonic circuits
- Test circuits and operate them on a single-photon level
- Optimise design and theory concepts to generate photonic quantum states
- Create and characterize highly entangled photonic resource states as a basis for quantum computing
- Contribute to project meetings, workshops, and conferences
- Build your foundation for future-oriented jobs in research and photonic industries

You have:

- Interest in collaborative and interdisciplinary research
- PhD in Physics, or related
- Experience in experimental quantum optics and (photonic) quantum technologies
- Ideally: Background in integrated photonics and experience in designing and testing photonic circuits
- Programming skills (Python, Mathematica, Matlab, ...)

Send us your application with:

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

This position is fixed term and available until filled.

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

Postdoc position:

Integrated photonic technologies for quantum computing

www.barzgroup.de

