Position ID	PhotonQ-Stutt-Postdoc1
Type of position	Postdoc
Subject Area	Experiment
Type of institution	University
Start date	1 March 2022 or after
Type of contract	24 months (extension may be possible)
PI	Prof. Dr. Stefanie Barz
Location	University of Stuttgart
Application deadline	Until position is filled
Position description	**Integrated photonic technologies for quantum computing** 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 ▪ Realize a state-of-the-art setup 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 ▪ Contribute to project meetings, workshops, and conferences ▪ Build your foundation for future-oriented jobs in research and photonic industries
Requirements	▪ PhD in Physics, Photonic Engineering, Electrical Engineering, 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, …) ▪ Interest in supervision of PhD students and leading a small team ▪ Interest in collaborative and interdisciplinary research
Application documents	▪ Short statement of research interests (max. 1 page) ▪ CV ▪ Certificates or transcript of records ▪ Contact details of three referees

Application email	Please send your application to: barz@fmq.uni-stuttgart.de
Contact email	For additional questions, please contact: barz@fmq.uni-stuttgart.de