Position ID	PhotonQ-Stutt-Postdoc2
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	**Deterministic single-photon sources** The generation of identical single photons on an integrated device is key for exploiting the full potential of future integrated quantum processors. We are looking for a postdoc to lead our endeavour to building deterministic single-photon sources for photonic quantum computing. You will: ▪ Set up a state-of-the-art setup for the deterministic generation of single photons from quantum dots ▪ Build a photonic quantum processor with deterministically generated photons ▪ Contribute to project meetings, workshops, and conferences ▪ Build your foundation for future-oriented jobs in research and photonic industries
Requirements	▪ PhD in Physics or related ▪ Experience in experimental quantum optics ▪ Ideally: Experience with single-photon sources based on quantum dots ▪ 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