

Position ID	PhotonQ-Stutt-PhD2
Type of position	PhD
Subject Area	Experiment
Type of institution	University
Start date	1 March 2022 or after
Type of contract	36 months
PI	Prof. Dr. Stefanie Barz
Location	University of Stuttgart
Application deadline	Until position is filled
Position description	<p>Deterministic single-photon sources</p> <p>The generation of identical single photons on an integrated device is key for exploiting the full potential of future integrated quantum processors.</p> <p>We are looking for a PhD student to contribute to our endeavour to building a photonic quantum processor.</p> <p>You will:</p> <ul style="list-style-type: none"> ▪ Build a state-of-the-art setup for the generation of single photons from quantum dots ▪ Generate single photons and use them for photonic quantum computing ▪ Learn and build your skills in photonic quantum technologies ▪ Build your foundation for future-oriented jobs in research and photonic industries
Requirements	<ul style="list-style-type: none"> ▪ MSc in Physics or related ▪ Ideally: Experience in optics and/or quantum optics ▪ Interest in experimental quantum optics and photonic quantum technologies ▪ Programming skills (Python, Mathematica, Matlab, ...) ▪ Interest in collaborative and interdisciplinary research
Application documents	<ul style="list-style-type: none"> ▪ 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