



Type of position  Subject Area  Experiment  Type of institution  Start date  1 March 2022 or after  Type of contract  36 months  PI  Prof. Dr. Stefanie Barz  Location  University of Stuttgart  Application deadline  Photonic quantum computing  Photonic quantum computing  Photonic quantum processors allow realizing quantum computing and the implementation of quantum algorithms based on highly entangled photonic states.  We are looking for a PhD student to join our endeavour to realizing quantum computing with single photons.  You will:  Develop concepts for photonic quantum computing and translate them to optical setups Build an optical setups Build an optical setup to realize a photonic quantum processor  Create and characterize highly entangled photonic resource states as a basis for quantum computing Implement quantum algorithms Build your foundation for future-oriented jobs in research and photonic industries  Requirements  MSc in Physics or related Ideally: Experience in experimental quantum optics Interest in photonic quantum technologies Programming skills (Python, Mathematica, Matlab,) Interest in collaborative and interdisciplinary research  Application documents  Please send your application to: barz@fmq.uni-stuttgart.de		
Subject Area	Position ID	PhotonQ-Stutt-PhD3
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