<table>
<thead>
<tr>
<th><strong>Position ID</strong></th>
<th>PhotonQ-Stutt-PhD2</th>
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</thead>
<tbody>
<tr>
<td><strong>Type of position</strong></td>
<td>PhD</td>
</tr>
<tr>
<td><strong>Subject Area</strong></td>
<td>Experiment</td>
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<tr>
<td><strong>Type of institution</strong></td>
<td>University</td>
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<tr>
<td><strong>Start date</strong></td>
<td>1 March 2022 or after</td>
</tr>
<tr>
<td><strong>Type of contract</strong></td>
<td>36 months</td>
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<tr>
<td><strong>PI</strong></td>
<td>Prof. Dr. Stefanie Barz</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>University of Stuttgart</td>
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<tr>
<td><strong>Application deadline</strong></td>
<td>Until position is filled</td>
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**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 PhD student to contribute to our endeavour to building a photonic quantum processor.

You will:
- 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**

- 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**

- 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