

Job opening

Nanofabrication Engineer

At Single Quantum, we confront every challenge with innovation, dedication, and passion. Founded in 2012, our team emerged as true pioneers of single photon detection technology: we were among the first to manufacture and commercialize superconducting nanowire single photon detectors.

Single photon detection has a broad range of applications: from fundamental physics to (future) technology, such as sending information with photons as (quantum) bits, featuring quantum cryptography and teleportation. Other applications include integrated circuits analysis and medical imaging. Over the years, our multi-channel Single Quantum Eos photon detection system has been chosen by more than 100 academic and industrial labs all over the world to perform complex optical measurements.

Task and responsibilities

Your responsibilities include but are not limited to:

- Fabrication of high-performance light detector, process engineering and development
- R&D in detectors for different applications
- Working closely with a team of design and measurement engineers
- Thin film characterization using metrology tools

Profile

We are looking for someone with:

- Master or PhD in (Applied) Physics or equivalent
- Experience with the following skills:
 - Working in cleanroom environment
 - **(Experience in working in Kavli NanoLab Delft highly preferred)**
 - Thin film deposition (e.g. ALD, sputtering, PECVD)
 - Fabrication processing techniques (e.g. e-beam lithography, wet and dry etch, lift off)
 - Metrology tools (e.g. SEM, AFM)
- Experience in thin-film sputtering of superconductors **is a plus**
- Good organizational skills
- High sense of responsibility and commitment
- Working proficiency in English.

We offer

- 32 - 40 hour contract and competitive salary with the intention of a permanent contract
- The opportunity to work on exciting and innovative technology
- A fast-growing, international working environment comprising of highly-skilled, diverse, and gender-balanced colleagues

How to apply

Please send your application (including motivation letter and CV) to: career@singlequantum.com

