

Nanofabrication Engineer

Would you like to work at one of the fastest growing quantum technology companies with a cutting-edge technology? Single Quantum is the world leading manufacturer of superconducting nanowire single-photon detectors (SNSPD). SNSPD is widely used in academic research and industry R&D and its applications range from quantum information technology to infrared time-resolved spectroscopy and laser ranging and remote sensing (LiDAR).

We are looking for a Nanofabrication Engineer to work on the R&D in SNSPD. You will work in an international and innovative environment and will be using the cleanroom facilities at the Van Leeuwenhoek Laboratory, one of the largest cleanrooms in the Netherlands.

Task and responsibilities

Your responsibilities include but are not limited to:

- Fabrication of high performance SNSPD;
- Improving the nanofabrication recipe and processes;
- R&D in detectors for different applications;
- Working closely with a team of design and measurement engineers;
- Thin film characterization using metrology equipment.

Profile

We are looking for someone with:

- PhD in (Applied) Physics or equivalent;
- Experience with one or more of the following topics:
 - Working in a cleanroom environment,
 - Thin film deposition (i.e. ALD and RF-sputtering),
 - Material processing techniques (i.e. e-beam lithography, thin film deposition, lift-off and etching),
 - Materials characterization techniques (i.e. AFM, TEM and SEM);
- Good organizational skills;
- High sense of responsibility and commitment;
- Working proficiency in English.

We offer:

- 32 - 40 hours contract and competitive salary;
- The opportunity to work on an exciting and innovative technology;
- Dynamic and innovative environment of a young company.

About us

Single Quantum (www.singlequantum.com) is a high-tech company based in Delft, the Netherlands. It was founded in 2012 as a spin-off from Delft University of Technology. We specialize in developing single photon detection systems for quantum applications and our instruments are used by scientists at universities and research institutes all over the world.

We believe that diversity of experience has contributed to the success of Single Quantum. We are working on increasing the diversity of our team and we encourage everyone to consider becoming part of it.

How to apply

Please send your application including a motivation letter and CV to: info@singlequantum.com