

Nanofabrication Engineer

Would you like to work at one of the fastest growing quantum technology companies with cutting-edge technology? Do you have a solid background in physics and experience in cleanroom nanofabrication? Do you want to be part of a diverse and dynamic scale-up company? Then this could be the position for you....

In short

Single Quantum is the world leading manufacturer of single photon detectors based on superconducting thin film technology. Our detectors are widely used for academic research and industry R&D in a variety of applications from quantum information technology to infrared time-resolved spectroscopy and laser ranging and remote sensing (LiDAR).

The heart of our system is the superconducting nanowire chip which detects the photons. It is produced by our nanofabrication team in the Van Leeuwenhoek Laboratory. We are looking for a Nanofabrication Engineer to work on the R&D of superconducting nanowire single photon detectors.

What you will be doing

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 test engineers;
- Thin film characterization using metrology tools.

Your profile

We are looking for someone with:

- Master or PhD in (Applied) Physics or equivalent;
- Experience with the following skills:
 - Working in cleanroom environment,
 - 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.

What we offer

- Competitive salary, benefits and a retirement plan.
- 28 leave days.
- An extraordinarily good work environment with fun colleagues, fruit and meditation.
- Working together in an international high-tech environment with colleagues from the Netherlands, USA, France, Columbia, Italy, China and the list goes on.
- Room for new initiatives and ideas. We are always open to those, whether you've been with us for a week, a month, or a year.
- We value personal development and growth and we invite you to do the same.



We are Single Quantum

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. Since then, 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.

We want to share this groundbreaking technology with the world. With a genuine vision, Single Quantum will continue to develop and improve the world's fastest, and most sensitive light detection systems. Join us in turning photons into data!

Equal Opportunity Employer

At Single Quantum, we celebrate diversity and are committed to creating an inclusive environment for all employees. We are proud to be an equal opportunity workplace.

How to apply

Send your CV and motivation letter to: career@singlequantum.com.

If you have any questions feel free to contact our HR Consultant, Nico Rumlawan, at nico@singlequantum.com or at +31 (0)6 3349 2327.

* Applications sent via LinkedIn will not be considered.

