

Quantum devices engineer (m/f)

Field:
Quantum optics,
nanofabrication,
Semiconductors

Position type:
full-time /
permanent

Location:
Palaiseau, France

Nanotechnology

Quantum
photonic
devices

International
Network

About Quandela and the context

Quandela is a spin-off company from the French national laboratory CNRS founded in 2017, composed by a team of motivated quantum technology enthusiasts with broad experience in optics, quantum photonic and semiconductor nanotechnologies.

Located in heart of the deep-tech campus of Paris-Saclay, in the south suburbs of Paris, Quandela pursues the development of unique components that boost the emergence of quantum technologies.

The core product consists in ultra-bright sources of pure quantum light based on a disruptive technology developed during the past 15 years within the Centre for Nanoscience and Nanotechnology-CNRS.

These unique quantum light sources serve as building blocks for the development of optical quantum computers and for the deployment of quantum networks.

While pursuing the development and commercialization of standalone quantum light sources from research laboratories to industrial users, our aim is to explore quantum computing architectures and quantum communication protocols tailored for deterministic quantum light sources.

Your Role

Merging **nanotechnologies and quantum optics** the projects will consist in the design, fabrication and optimization of new quantum light source compact devices.

A jointed team of quantum optics engineers and semiconductor processing experts will take advantage of top-class cleanroom facilities and infrastructures for the development of quantum light sources at different wavelengths and explore their implementation.

Your Skills and your profile

BSc degree or above. Candidates should present advanced skills in nanotechnologies, quantum optics and telecom technologies.

Experience in solid-state physics and in single emitter spectroscopy is appreciated.

Knowledge of French language is not required.

What Quandela offers

- A unique, challenging, international environment
- Strong potential for career development within a growing highly professional team
- Close collaborations with national and international research groups and private companies
- Highly competitive salary + additional benefits