



Internship program - Quantum computing: Theory, algorithms & systems

On-site · Research · Temporary

Massy, Île-de-France, France

[OVERVIEW](#) [APPLICATION](#)

Description

[Share this job](#)

Quandela is a spin-off company from the French national laboratory CNRS founded in 2017, with teams of quantum technology specialists with broad experience in semiconductor nanotechnologies, quantum optics and photonics, computer science, and quantum information, foundations and computing. Located in the southern suburbs of Paris, with its main offices in Massy and fabrication facilities in the deep-tech campus of Paris-Saclay, Quandela is developing photonic quantum computing platforms, covering all areas of the computing stack from hardware to middleware, software and algorithms.

Our R&D activities on the theory of quantum computing cover algorithms, modelling, benchmarking, compilation, delegated computing and error correction.

Internships at Quandela provide a dynamic environment and immersive experience of research in cutting-edge labs led by expert scientists.

You will join a growing and enthusiastic community, explore uncharted questions, develop new skills and make connections for life.

Requirements

- You are currently enrolled in a university or in a higher education program in Physics, Mathematics, Computer Science, Electrical and Computer Engineering or related fields
- You are curious and love solving problems
- You have experience with, or strong interest in, quantum computing or quantum information theory
- Coding skills are appreciated (Python, C#, C/C++, etc.)

When to apply

The call opens every year on September 15th and applications are accepted until November 24th. If short-listed, you will be contacted for an interview at the beginning of December and notified of our decision by December 18th. Internships should start between February 1st and April 30th and should last 4 to 6 months.

How to apply

In your application, please:

- Provide a CV
- Describe your motivation for joining Quandela
- List any previous or current relevant courses, experience or internships that relate to topics being developed at Quandela
- Specify your period of availability (if relevant, you can mention any additional school requirements or timing constraints)
- Specify whether you need a student visa specifically for this internship
- Select up to 3 keywords in the following list that describe best your research interest and expertise: "Quantum error correction", "Quantum compilation", "Physical noise models", "Quantum algorithms", "Quantum machine learning", "Quantum error mitigation", "Secure delegated quantum computing", "Software development", "Open quantum systems"

Benefits

- A unique, challenging, international research environment with supervision by expert scientists and engineers
- Collaborations with national and international academic groups and private companies
- Competitive compensation and benefits

[Apply for this job](#)

Quandela collects and processes personal data in accordance with applicable data protection laws. If you are a European Job Applicant see the [privacy notice](#) for further details.

[View website](#) · [View all jobs](#) · [Help](#) 

Powered by [Workable](#) · [Accessibility](#) 