

Quantum Application Engineer – Full-Time – Paris, Le Village by CA

Join the quantum frontier with ColibriTD

Are you ready to revolutionize the future of computing? At **ColibriTD**, we are at the cutting edge of quantum software innovation, solving some of the most complex problems in **aerospace, climate, semiconductors, defense, mobility**, and beyond. We're seeking a passionate **Quantum Application Engineer** to join our growing team of experts and make an impact in the world of quantum computing.

About ColibriTD

Founded in 2019, **ColibriTD** is a deep-tech company dedicated to advancing quantum computing software. Our flagship platform seamlessly integrates quantum solutions into industry-standard simulation software, enabling businesses to leverage the power of quantum computing on multiple hardware platforms.

At ColibriTD, we focus on **quantum algorithms** tailored to noisy, near-term quantum hardware (NISQ), delivering real-world advantages while shaping the future of computing. In particular, we are leader in solving **industrial simulations** and partial differential equations using today's quantum computer.

Why join us?

- **Innovation first:** Work on cutting-edge quantum algorithms with immediate real-world applications.
- **Dynamic team:** Collaborate with a diverse group of **quantum experts, software engineers**, and innovators at **Le Village by CA**.
- **Impactful projects:** Drive quantum-powered breakthroughs in industries that shape our future.
- **Culture of growth:** Enjoy a collaborative, inclusive environment that values creativity and supports your professional development.

Your role

As a **Quantum Application Engineer**, you will:

- **Contribute to development of quantum algorithms:** Participate in the development of original directions for improving quantum algorithms that solve complex computational challenges.
- **Collaborate with the Research team:** Work in collaboration with the research team to implement and explore original algorithmic ideas. Apply those ideas to solve real-world use cases.
- **Manage projects and clients:** Make the bridge between our research team and clients' needs. Manage project negotiations and planification, resource attribution, and more.
- **Hands-on testing:** Validate and optimize quantum software across a variety of hardware platforms.
- **Shape the future:** Stay at the forefront of quantum advancements and integrate the latest research into our projects.

What we're looking for

Team spirit:

You will be the core of the projects you manage, meaning that being able to work as a **team member** is of utmost importance.

Qualifications:

- MSc or PhD in **quantum computing, quantum physics, quantum chemistry, or computer science**.
- Experience in quantum algorithms, quantum physics, or computer science (academic or industry setting).
- Proficiency in programming (preferably **Python**) and algorithm development.
- Skills in **project management** (negotiation, specification, planification, budget, advancement tracking, ...) are highly appreciated.

Skills:

- **Problem-solving:** Strong analytical skills with a creative approach to tackling complex challenges.

- **Communication:** Good ability to explain technical concepts to diverse audiences.
- **Autonomy:** Comfortable taking ownership of projects and delivering results.
- **Initiative:** A proactive mindset to propose and implement innovative ideas.

Why you'll love working with us

- **Competitive package:** Attractive salary, benefits, and opportunities for growth.
- **Collaboration at its best:** Work in a supportive, inspiring, and inclusive team environment.
- **Flexible setup:** Enjoy hybrid work options and a balance between autonomy and teamwork.
- **Parisian quality of life:** Work in the historical center of Paris, rue de la Boétie, 5min from Les Champs Elysées and 10min from the Saint-Lazare station.

How to apply

Send your **CV** and **cover letter** to jobs@colibritd.com with the subject: “**Quantum Application Engineer position**”. Feel free to include links to your **publications**, **GitHub**, or other relevant projects.

Take the leap and join ColibriTD in shaping the quantum future—apply now!

For more context, here are links to some key resources:

- **Website :** <https://colibritd.com>
- **Preprint:** <https://arxiv.org/abs/2410.01130>
- **GitHub:** <https://github.com/ColibriTD-SAS/mpqp>
- **LinkedIn:** <https://www.linkedin.com/company/colibritd/>
- **Discord:** <https://discord.gg/c8dqkWBb>
- **YouTube:** <https://www.youtube.com/@ColibriTD>