

## Applied AI Engineer

Remote | EU / UK / Switzerland | Full-Time

### About Superpositions Studio

Superpositions Studio is an end-to-end quantum ML and optimization platform that bridges the gap between abstract quantum potential and real-world industry applications. We help R&D teams in finance, energy, manufacturing, logistics, and pharma answer the fundamental question: *"Is quantum worth it for us, and when?"*

Our philosophy is simple: less quantum magic, more quantum decisions. We cut through the hype to deliver practical, benchmarked solutions that enterprises can trust.

### The Opportunity

We're looking for an Applied AI Engineer to build and evolve the AI engine behind our Superpositions Studio platform: a multi-agent system that guides users from a natural-language problem description to a complete quantum experiment with runnable code, metrics, and a publication-grade report.

Your primary focus will be **Agentic AI Systems**: designing, developing, and maintaining the LLM-based multi-agent pipelines that power the core product - orchestration, tool-calling, context management, code and report generation.

As a secondary responsibility, you'll contribute to **client-facing ML projects** (time-series, classification, predictive modeling) when they come in, bringing practical solutions integrated with the platform's quantum algorithms.

### Key Responsibilities

- Design, develop, and maintain agentic AI systems built on top of LLM provider APIs (e.g. multi-agent pipelines, tool-calling workflows, orchestration logic)
- Contribute to the architecture of complex, large-scale AI solutions — not just implementation, but structural decisions
- Integrate LLMs into existing and new product features, ensuring reliability, scalability, and maintainability
- Make architectural decisions within an engineering team (2–3 developers), not just execute predefined tasks
- Track the fast-moving LLM/agentic ecosystem and proactively propose migrations to better tools and frameworks
- Step into client ML projects as needed (forecasting, anomaly detection, classification)

### Requirements

- 3+ years of hands-on experience in AI/ML engineering
- Strong Python skills with experience building production-grade systems

- Deep understanding of the LLM stack: prompt engineering, function calling, RAG, context window management, structured outputs
- Practical experience with agentic system design: building and working with multi-step, multi-agent, or autonomous workflows
- Experience working with LLM provider APIs (Anthropic, OpenAI, or similar)
- Solid classical ML skills: able to independently pick up and deliver applied tasks
- Interest in quantum computing (theory, frameworks like Qiskit/PennyLane, or quantum ML experience), deep quantum background is not required, we'll teach you
- Ability to own solutions end-to-end: from architecture to deployment
- Comfortable working autonomously with minimal oversight

## What We Offer

- **Work at the Intersection of Two Frontiers:** You'll build an AI system that makes quantum computing accessible: a rare convergence of LLM agents and quantum ML
- **Architectural Influence from Day One:** Small team, early product: your decisions shape the architecture, they don't disappear into a backlog
- **LLM Budget and Infrastructure:** Access to models, API credits, and compute for experiments — no need to fight for budget on every test
- **Quantum Education Through Practice:** Work side by side with quantum physicists and optimization researchers, learn the domain through real problems, not courses
- **Remote-First:** Full autonomy, async culture, flexible hours, no micromanagement
- **Equity Participation:** Opportunity to earn a stake in the company at an early stage
- **Competitive Compensation:** Base salary benchmarked to experience and market
- **Performance Bonuses:** Quarterly bonuses tied to measurable impact (e.g., new features shipped to production, platform reliability improvements, successful client project delivery)
- **Rigor Without the Ego:** We care about getting it right, not about sounding smart. Honest about what quantum can and can't do — including to our clients

## How to Apply

Send your CV and a brief note explaining why you're interested in this role to:

[info@superpositions.studio](mailto:info@superpositions.studio)

Please include "Applied AI Engineer Application" in the subject line.

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*superpositions.studio*

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