



Postdoctoral Position in Quantum Machine Learning and Quantum Computing

The recently established Chair of Excellence in Quantum Information and Artificial Intelligence, hosted by Laboratoire d'Automatique, de Mécanique et d'Informatique Industrielles et Humaines (LAMIH) (UMR CNRS 8201) at the Université Polytechnique Hauts-de-France, is inviting applicants for a postdoctoral position in quantum machine learning and quantum computing.

We are particularly interested in the integration of artificial intelligence and hybrid quantum–AI systems to enhance computational performance. In this context, quantum machine learning (hybrid and potentially fully quantum) will be developed and applied. We will explore hybrid co-optimization and co-acceleration strategies, including performance evaluation and quantum error correction. A key objective is also the application of these approaches to autonomous locomotive systems.

- 📍 Valenciennes (France), with easy access to Paris, Brussels, and London.
- 📅 Start date: September 2026 (or shortly thereafter)
- 🕒 Application deadline: June 1, 2026
- 📄 Duration: 1 year (renewable)

The Candidate should have experience in at least two of the following areas: quantum machine learning, quantum algorithms, quantum processing, quantum control and error correction, quantum cryptography, or quantum optimization.

Required qualifications include a PhD in a relevant field, a strong research track record, excellent analytical and programming skills, and experience with tools such as Python, Qiskit, PennyLane, or Cirq.

📧 Applications (single PDF including CV, cover letter, research statement, transcripts, and referees' contacts) should be sent to: hichem.el-euch@uphf.fr

This is an excellent opportunity to join a dynamic and international research environment at the forefront of quantum information and AI.