Université de Strasbourg

Engineer « Pack quantique »
Maison du quantique Grand Est
European Center for Quantum Sciences (CESQ)

1. Context Maison du quantique Grand Est - MaQuEst

Environment:

Based within the University of Strasbourg and the CNRS, the European Center for Quantum Sciences (CESQ) is a transnational center for education and research in quantum sciences, affiliated with the Institute for Supramolecular Science and Engineering (ISIS – UMR 7006). CESQ builds on Strasbourg's strong tradition of interdisciplinary research in physics, chemistry, materials science, photonics, and computer science, with the aim of developing new fundamental and applied research themes as well as use cases for the emerging quantum industry.

It is in this environment of excellence that the **MaQuEst project – Maison du Quantique Grand Est** – is anchored. Led by the University of Strasbourg in collaboration with academic partners (UTT, URCA, and Inria-UL) and industry (Euro-Information, QPerfect, and Damavan Imaging), MaQuEst is part of France's National Quantum Strategy and the nationwide network of Maisons du Quantique.

MaQuEst aims to position the Grand Est region as a key player in high-performance computing (HPC) and quantum computing at both national and European levels. With three physical locations in Strasbourg, Reims, and Troyes, and three satellite hubs across the region, MaQuEst brings together a growing ecosystem combining cutting-edge research, cross-border collaboration, and industrial innovation. The project facilitates interaction between academia and industry to develop real-world use cases in strategic sectors such as biotechnology, artificial intelligence, finance, and operations research. It draws on platforms such as the aQCess quantum computing infrastructure in Strasbourg, the ROMEO supercomputer in Reims, and strong engagement from industry partners and regional innovation actors.

Its goal is to accelerate the adoption of quantum and hybrid technologies, disseminate research-driven innovations, train economic stakeholders in quantum challenges, support startup creation, and strengthen national and cross-border collaborations. MaQuEst thus contributes fully to the national network of Maisons du Quantique and to building a robust, sustainable, and locally embedded quantum ecosystem.

2. Position overview

Status : Contractuel **Category :** A **Rank :** Research Engineer

Position title: Ingénieur Pack quantique « MaQuEst » Maison du quantique Grand Est

Job type: Research Engineer – High Performance & Quantum Computing

BAP : BAP C

Department / Unit: University of Strasbourg – Institute for Supramolecular Science and Engineering (ISIS) – European Center for Quantum Sciences (CESQ)

Contact for information:

Imane Barbara-Bokeloh (Project Manager) – ibarbara@unistra.fr
Prof. Guido Pupillo – pupillo@unistra.fr

3. Mission

The engineer Pack quantique, recruited by UNISTRA-CESQ, will serve the entire MaQuEst consortium. He/she will be responsible for the design and implementation of the "Pack quantique", in consultation with the program's governing bodies. His/her mission will be to identify topics and use cases to be developed within the program, while keeping an active watch on emerging research fields and stakeholders, at regional level and beyond.

4. Activities

- Participate in research projects, particularly in hybrid quantum computing.
- Establish links with academic partners and encourage the creation of collaborative projects between industry and academia, focusing on business use cases.
- Act as a link with the operational engineers of the three antennas and the business developer
- Promote the exploitation of Pack quantique activities.

5. Skills

Key Profile Elements

The candidate should:

- Hold a research background in quantum computing and/or high-performance computing (HPC).
- Have a PhD or an equivalent 3 to 5 years of relevant professional experience, in France and/or internationally.
- Be willing to travel frequently to engage with academic, industrial, and institutional partners across the Grand Est region.
- Engage in regular, constructive exchanges with other regional "Maisons du quantique", in a spirit of shared experience and best practices.

Technical/Operational Skills

- Management of collaborative projects involving laboratories, startups, and industry.
- Experience using hybrid computing platforms (e.g., GENCI, aQCess, ROMEO).
- Ability to identify, define, and support quantum use cases across various sectors.
- Conducting technological watch and strategic positioning in the quantum ecosystem.
- Dissemination of outcomes: report writing, communication, participation in events.
- Strong command of English (written and spoken).

Behavioral Skills

- Autonomy, initiative, and ability to prioritize.
- Excellent interpersonal skills and ease in engaging with diverse profiles.
- Ability to synthesize, popularize, and communicate in interdisciplinary contexts.
- Diplomacy and negotiation skills in multi-stakeholder environments. Rigor and reliability.

- Scientific curiosity and a strong interest in technological innovation and its real-world applications.

6. Work environment

Service information:

- Name: European Center for Quantum Sciences (CESQ)
- Staff: 50
- Workplace: European Center for Quantum Sciences, Cronenbourg Campus, 23 rue du Loess, Strasbourg, France

Hierarchical supervision:

- CESQ Director

Functional relationships:

- CESQ Director
- MaQuEst Team
- MaQuEst Partners

Special conditions:

- 12-month renewable fixed-term contract

To apply, please send a CV and cover letter to:

Imane Barbara-Bokeloh (Project Manager) – ibarbara@unistra.fr

Prof. Guido Pupillo – pupillo@unistra.fr