

Alice & Bob Partners on Europe's First Doctoral Network Dedicated to Quantum Error Correction

This broad collaboration will train researchers across the full quantum error correction stack filling a gap in the current workforce

PARIS, FRANCE, August 12, 2026
/EINPresswire.com/ -- [Alice & Bob](#), a

leader in fault-tolerant quantum computing, is contributing its expertise in cat-qubit error correction to [QuBriC](#), Europe's first Marie Skłodowska-Curie Actions (MSCA) Doctoral Network dedicated to quantum error correction (QEC).



QuBriC brings together 16 universities and seven quantum companies across Europe, including ETH Zürich, TU Delft, UCL, INRIA, Riverlane and IQM, to recruit and train 15 doctoral researchers. Backed by €4.6 million in funding over 48 months through Horizon Europe's MSCA programme, the network will develop a new generation of researchers capable of tackling one of quantum computing's biggest technical challenges: quantum error correction.

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Christophe Vuillot, Principal Research Scientist - QEC at Alice & Bob

"Quantum error correction sits at the heart of any fault-tolerant quantum computer, interacting with all aspects of it. As such, it requires expertise spanning seemingly separate disciplines," said Christophe Vuillot, Principal Research Scientist, QEC at Alice & Bob. "QuBriC brings together leading universities, research institutes and

quantum companies to train researchers and bridge these gaps, combining expertise from quantum information, coding theory and hardware engineering. This next generation of researchers will be essential to accelerating the path to useful, fault-tolerant quantum computers."

Quantum error correction is widely recognised as the key to building scalable, fault-tolerant quantum computers. Yet expertise remains fragmented, with researchers typically specialising in either classical coding theory or quantum physics. QuBriC aims to bridge that divide by training researchers across the full quantum error correction stack - from theory and algorithms to hardware implementation.

As an industry partner, Alice & Bob will help shape the network's research and training while contributing expertise in cat-qubit-based error correction. For the company, QuBriC provides access to a pipeline of highly specialised talent and an academic network closely aligned on fault-tolerant quantum computing.

The MSCA program has advanced research and innovation for the last 30 years by supporting over 150,000 researchers, including 23 Nobel Prize winners. The programme has been a cornerstone of European research by fostering mobility across disciplines, sectors, and countries and attracting and nurturing top talent within academia and businesses.

Unlike traditional research grants, MSCA Doctoral Networks fund international consortia of universities, research organisations and industry partners to jointly recruit, train and supervise PhD researchers. Doctoral candidates undertake interdisciplinary research while working across academic and industrial environments, equipping them with the technical and transferable skills needed to address major scientific and technological challenges.

About Alice & Bob

Alice & Bob is a quantum computing company based in Paris and Boston whose goal is to create the first universal, fault-tolerant quantum computer. Founded in 2020, Alice & Bob has raised €180 million in funding and employs more than 250 people.

Advised by Nobel Prize winning researchers, Alice & Bob specializes in cat-qubits, a technology developed by the company's founders. Demonstrating the power of its cat architecture, Alice & Bob recently showed that it could reduce the hardware requirements for building a useful large-scale quantum computer up to 200 times compared with competing approaches.

About QuBriC

QuBriC (Bridging Quantum and Classical Error Correction for Scalable Fault-tolerant Quantum Computing) is a Marie Skłodowska-Curie Doctoral Network (MSCA-DN) funded under Horizon Europe.

QuBriC unites 23 European partners across Europe and beyond: 14 beneficiaries and 9 associated partners, including 16 leading academic institutions (TU/e, KIT, Freie Universität Berlin, ETH Zürich, University of Gdańsk, UCL, Politecnico di Milano, Chalmers, University of Edinburgh, INRIA, TU Delft, Università di Napoli Federico II, University of Navarra, Duke University, LMU Munich, Sorbonne Université) and 7 major quantum computing companies (Riverlane, IQM,

Alice & Bob, Quantinuum, Pasqal, QuiX Quantum, Quandela).

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