



“ At EDHEC, we hold a simple conviction: **quantum is a public good**, a subject far too important to remain confined to a small circle of insiders. It is no longer merely a topic of discussion among physicists or engineers; it is **a new industrial revolution** that will transform every industry.

Our role is to provide economic decision-makers, and society as a whole, with the **keys to understand quantum and grasp its implications**. This is precisely why we launched the EDHEC Quantum Institute, a pioneering initiative for a business school.

Lionel Martellini, PhD

Founding Director,
EDHEC Quantum Institute

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A bridge between quantum technologies and business

The EDHEC Quantum Institute helps decision-makers understand and anticipate the business impact of quantum technologies by connecting cutting-edge science with strategic and economic challenges.

RESEARCH INITIATIVES:

Foundations of Quantum Mechanics

The EDHEC Foundations of Quantum Mechanics Initiative is a research program dedicated to helping policymakers, industry leaders, and the wider public better understand the conceptual foundations of quantum theory at a time when quantum technologies are about to become economically and socially transformative. It promotes a clear, rigorous, and accessible narrative showing that quantum physics is a coherent scientific framework that describes not only actual events, but also structured physical potentialities. As these deeper layers of reality begin to be harnessed in computation, communication, and sensing, a better understanding of quantum theory becomes essential to guide sound strategic, ethical, and regulatory decisions.

Quantum Technologies for Finance

The EDHEC Quantum Technologies for Finance Initiative is a research program that explores how quantum awareness can help investment professionals better understand both the opportunities and the limits of quantum technologies in finance. Aimed at asset owners, asset managers, intermediaries, and regulators, it provides a rigorous, evidence-based analysis of where quantum computing, quantum-inspired methods, and quantum investing may create real value across security selection, portfolio construction, risk management, and exposure to the emerging quantum ecosystem. By rejecting both hype and quantum washing, the program offers a clear strategic framework for navigating the long-term financial implications of the quantum revolution.

Quantum Technologies for Information & Communication

This research program, conducted within the EDHEC-EURECOM Joint Lab on Quantum Technologies for Information and Communication, explores how quantum technologies can progressively strengthen, secure, and transform classical communication networks. The initiative is built around a central conviction: quantum technologies should not be seen merely as a distant replacement for classical communication systems, but as an evolution of existing digital infrastructures. Rather than opposing classical and quantum paradigms, the program develops a layered vision of hybrid networks in which post-quantum cryptography, quantum key distribution, quantum physical unclonable functions, quantum sensing, and quantum networking combine to improve both security and performance.

MISSION

The EDHEC Quantum Institute aims to bridge the gap between quantum science and economic decision-making.

It contributes to reframing how quantum technologies are conceptualized and communicated, making them intelligible and operational for business leaders and society. Through research, education, outreach and industry engagement, the Institute supports more informed strategic decision-making in an increasingly quantum-driven environment.

It fosters the adoption of quantum technologies in key sectors such as finance and telecommunications and aims to position EDHEC as a leading academic voice at the intersection of quantum technologies and business.

RESEARCH

Three interdisciplinary research initiatives explore the foundations of quantum mechanics, quantum technologies in finance, and quantum communication networks. Each program builds rigorous, evidence-based knowledge at the intersection of quantum science and business strategy, helping organizations move beyond hype toward grounded, actionable insight.

EDUCATION

The Education pillar trains a new generation of decision-makers to understand the scientific, economic and strategic implications of quantum technologies — through academic courses for students and short programmes and certificates for executives, fostering a strong quantum culture across both higher education and the business world. It bridges the gap between deep tech and strategic decision-making.

BUSINESS

The Business pillar builds strategic bridges between fundamental quantum research and industry leaders — supporting corporate partnerships for applied R&D in simulation, optimization, cybersecurity and communication. A key initiative is the Quantum Risk Assessment Framework (QRAF): a structured methodology to help organizations assess, manage and govern quantum-related risks.

OUTREACH

The Outreach pillar makes quantum science accessible to society at large. Through conferences, international events, webinars, podcasts, press partnerships and media initiatives, the Institute creates spaces for informed public debate. Highlights include the World Quantum Cannes Festival and large-scale public events designed to spark curiosity and civic engagement around the quantum revolution.

EDUCATION

Quantum for Executives: Flagship Executive Programme

A flagship programme for senior leaders to understand the strategic implications of quantum technologies, identify business opportunities, and make informed strategic decisions.

Academic Programmes integrating quantum topics

Custom Executive Education Programmes

MANAGING TEAM



Lionel Martellini, PhD
Founding Director

Dual PhD in Finance (UC Berkeley) and Astrophysics. Professor of Finance at EDHEC and former director of EDHEC-Risk Institute. He founded EQI to help organizations and society navigate quantum's scientific and economic implications, bridging research, industry, and policy.



Camille Georges
Deputy Director

Former Quantum Technology Specialist at the World Economic Forum and Director of Operations at SBQuantum. MBA from Collège des Ingénieurs; Engineering degree from ESPCI Paris. Combines deep technical expertise with a business-oriented mindset to drive impactful initiatives in the quantum ecosystem.



Noémie Nevers
Head of Marketing & Communications

Over a decade in technology, aerospace and international business, including Thales Alenia Space, where she worked in external communication. Drives EQI's visibility among leaders, policymakers and media. Dual master's degrees in Corporate Communication & International Affairs.