



Dear Quantum Flagship member,

We hope you have returned from the summer break feeling well-rested and ready for an interesting September newsletter.

We are excited to reveal the EQTC 2024 preliminary programme and to invite you to our new Quantum Technology (QT) training series for policymakers.

We share our latest 'Quantum Explained' video and news about the European Competence Framework for QT. Don't miss the opportunity to share your valuable insights to better understand and address equity, diversity, and inclusion challenges, and to apply for the EDI Prize.

Additionally, there are several funding opportunities for QT, and you can read about fantastic achievements of the EQUALITY project and the latest news from QuantERA.

If you would like to inform the community on QT activities or events within your national or regional community, or provide feedback to the Quantum Flagship newsletter, please get in touch at newsletter@qt.eu.

Best regards,
The Quantum Flagship Coordination Team

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News from the Quantum Flagship

Quantum Flagship event news

EQTC 2024 preliminary programme revealed

A promotional banner for the European Quantum Technologies Conference 2024. The background features a stylized map of Europe with glowing red and blue lines representing quantum connections. On the left, a pink circle contains the 'EQTC' logo. Text on the left includes 'European Quantum Technologies Conference 2024', 'a Quantum Flagship event', '18 to 20 November', and 'Lisbon, Portugal'. On the right, a large pink circle contains the text 'The preliminary programme is now online!'. At the bottom left, it says 'Don't miss the opportunity to attend EQTC 2024 and register today!'. The bottom of the banner features logos for the Quantum Flagship, Portuguese Quantum Institute, European Commission, and Mundiconvenius, along with the website 'eqtc.qt.eu' and email 'eqtc@mundiconvenius.pt'.

Find out the first exciting keynote and invited speakers to be announced in the **EQTC 2024 preliminary programme!**

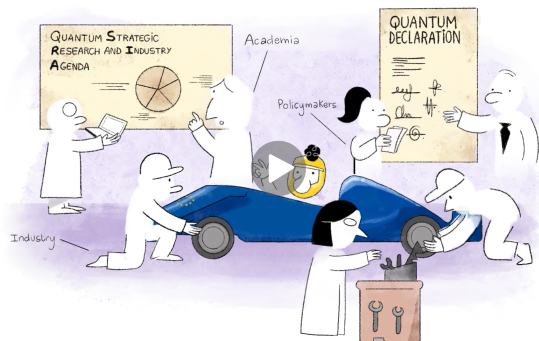
As the main quantum conference of the European Commission and the meeting point for the European quantum community, the EQTC is the place for the newest updates on high-level European strategy, scientific and technological advances, and networking opportunities. Join us in **Lisbon, 18-20 November 2024**.

With over 200 posters showcasing a wide variety of themes, there will be something for everyone. **Interested in exhibiting?** With only 3 booths remaining, now is your chance. Exhibitors can pitch during a plenary session on the opening day and host a lunch talk, offering prime exposure to attendees.

[READ MORE](#)

News from the Quantum Flagship

A glimpse into a quantum-powered future



The second episode of the ‘Quantum Explained’ video series is now live, offering a glimpse into what a future powered by quantum technologies could mean for our daily lives. From healthcare to safety and infrastructure, the episode explores practical examples of how these advancements might reshape essential sectors.

The episode also highlights Europe’s strong commitment to leading innovation in quantum technologies. By fostering collaboration between policymakers, researchers and industry stakeholders, Europe is investing in the resources and expertise needed to turn these emerging opportunities into real-world solutions, positioning itself as a key player in the global quantum race.

[WATCH VIDEO](#)

New from the Quantum Flagship

Call to action: Survey on equity, diversity, and inclusion

The Quantum Flagship survey on equity, diversity, and inclusion (EDI) aims to gather insights from the community, in order to better understand and address EDI challenges. Unfortunately, this year we have **not received enough replies** to gain a truly representative view of our community.

Therefore, **we ask for your help**. All members of the quantum ecosystem – from students and early-career researchers to professionals in academia and industry – are encouraged to participate and to distribute the survey. Your contributions are essential in shaping a more inclusive future.

The survey takes just 10 minutes; the deadline is extended to **30 September 2024**.

[TO THE SURVEY](#)

News from the Quantum Flagship

Call for nominations: Equity, Diversity, and Inclusion Prize

The Quantum Flagship is calling for nominations for the EDI Prize 2024, with a €2,000 award kindly sponsored by QUDORA. Nominations open today and close on **21 October 2024**.

The prize will award efforts undertaken by individuals towards EDI in their institutions, and be presented at EQTC 2024 in Lisbon.

Eligible individuals from any EU27 country can apply, with both self-nominations and nominations of others welcomed. Submissions should include team bios, track record, impact of actions, and future commitments. The winner will be notified by 1 November 2024.

[READ MORE](#)

News from the Quantum Flagship

Now as official EU publication: European Competence Framework for QT

The [European Competence Framework for Quantum Technologies](#) (CFQT) has now been published by the Publications Office of the European Union. It is the reference framework for planning, mapping and comparing QT-related educational activities, personal qualification and job requirements.

The CFQT was created and updated within the Quantum Flagship CSAs (QTEdu and QUCATS). Version 2.5, released in April 2024, introduces a proficiency triangle and nine qualification profiles. This update was driven by an analysis of more than 30 interviews with industry representatives, focusing on workforce development and training needs. A preprint of the interview analysis is available at [arXiv:2407.21598](#), and a dedicated paper on the CFQT update is currently in progress.

[TO THE DOCUMENT](#)

Quantum Flagship event news

New series of QT trainings for policymakers

 Funded by the European Union

ONLINE TRAINING

QUANTUM TECHNOLOGY

for policymakers

Topic:
Societal Challenges of QT in Europe

Speakers

MARCELA LINKOVA
Head of the Centre for Gender and Science IS CAS (CZE)

PIETER VERMAAS
Professor in Philosophy of Design and Quantum Technologies;
Ethics Research Lead at Quantum Delta (NL)

 26 September
11:00 - 12:00 CEST

Register now for the kick-off session of our second online training series to join us on **26 September 2024**, where we will have an insightful discussion on **'Societal Challenges of QT in Europe'**.

Listen to an inspiring presentation on strategies towards gender balance and the developments from the GENDERACTIONplus CSA by Dr. Marcela Linkova, and learn about Societal Challenges of QT Innovation, presented by Prof. Pieter Vermaas. Read more and register now on the training webpage.

News from the European Commission

Funding for QT

First calls for quantum chip pilot lines announced

The Chips Joint Undertaking (Chips JU) aims to secure Europe's future supply of nano-electronic chips, including those based on QT. Two calls dedicated to quantum chips have now been published: for developing **stability pilot lines** and **trapped ions pilot lines**. It is expected that three chosen proposals will receive €15mil to €25mil each. Applications are possible until **21 January 2025**.

The Chips JU also has an open €116mil call to establish '**Chips Competence Centers**' in the EU. Each should have an area of specialisation, with quantum chips given as an example. The call remains open until 2 October 2024.

Find out more below, and stay up to date with the latest calls via our [funding opportunities](#) page.

[READ MORE](#)

Funding for QT

EIC Accelerator grants awarded to quantum SMEs

The European Innovation Council (EIC) recently announced the winners of the first EIC Accelerator round of 2024. The 68 deep-tech start-ups and SMEs will share an estimated €411mil in equity and grants, including capital from external investors.

The winners include **five companies working in QT**, namely Kiutra (DE), QuIX Quantum (NL), QC Design (DE), Quantum Transistors (IL) and Weling (FR). The first of these will look at quantum-enabling cryogenics, while the latter four each work in quantum computing – from photonics and solid-state processors to architectures and memory links.

[READ MORE](#)

News from Quantum Flagship projects

News from QuantERA

Catalogue of QuantERA 2023 projects published

This year, the QuantERA network launched 24 new projects, involving 122 research teams from 23 countries. Selected from 101 proposals in the QuantERA Call 2023, these projects represent a total investment of €29mil, with an average budget of €1.2mil per project. These projects are brilliantly profiled in the recently published QuantERA Project Catalogue 2023

Running until Summer 2027, the projects are separated into the two categories 'Applied Quantum Science' and 'Quantum Phenomena and Resources'. An overview of call statistics, including on gender and geographical representation, can be found in the catalogue.

[READ MORE](#)

News from EQUALITY

EQUALITY project advances quantum algorithms for industry

The EQUALITY project, now past its halfway point, lays foundations for the industrial use of quantum computers and contributes to the roadmap towards quantum advantage. Its goal is to develop a full stack of technologies, including algorithms, middleware, and hardware, to optimise the use of Noisy Intermediate-Scale Quantum (NISQ) devices.

In the first 18 months, the project implemented an API for solving partial differential equations, crucial for quantum computing's industrial applications, particularly in aerospace. Going forward, the team will explore complex industrial use cases, comparing results to drive progress towards quantum advantage.

[READ MORE](#)

Funded by the European
Commission

Responsibility

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