



Dear Quantum Flagship member,

In this packed edition of the newsletter there are numerous opportunities for you to get involved in shaping the future of quantum technologies (QT) in Europe.

Mark your calendars for various events, including EQTC 2025 and a new training session for policymakers coming up. We are also excited to reveal the 2024 KPI values for QT in Europe.

You can take part in a study on the needs of quantum researchers with an emphasis on DEI, plus find out about open calls, the free-to-access quantum computing platform Quantum Inspire 2.0, and much more beyond that.

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

- **Save the date: European Quantum Technologies Conference 2025**
- **QT for policymakers: Commercialisation and economic impact of QT**
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News from the Quantum Flagship

Quantum Flagship event news

Save the date: European Quantum Technologies Conference 2025



Save the date for the European Quantum Technologies Conference (EQTC) 2025 – the flagship event for Europe’s quantum technologies community. From **10-12 November 2025, Copenhagen** will host this key gathering, uniting researchers, industry leaders, policymakers, and innovators to shape the future of quantum in Europe and beyond.

Held under the Danish EU Presidency, the conference is co-organised by the University of Copenhagen, the Danish Ministry of Foreign Affairs, the Danish Agency for Higher Education and Science, and the Danish Business Authority.

EQTC 2025 is set to be a defining moment for Europe’s role in the global quantum landscape. Stay tuned for more details.

QT for policymakers: Commercialisation and economic impact of QT



Join the 6th session of our training series tailored for policymakers on **24 April 2025**.

This month's session focuses on the commercialisation and economic impact of QT, featuring insights from **venture capital expert Emily Meads** and recommendations from the **European Quantum Industry Consortium**, presented by Mattia Giardini.

Learn more and register via the button below.

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News from the Quantum Flagship

2024 KPI values for QT in Europe published

The Quantum Flagship has released the 2024 Key Performance Indicators (KPIs) for QT in Europe, revealing significant progress towards its 2030 targets.

Notably, advancements have been made in patent creation and intellectual property retention, supply chain development, and strategic autonomy. Two new KPIs on quantum simulation section have been introduced, reflecting that there are already real-world industrial and societal use cases for European quantum simulators.

With a comprehensive overview and all results, the 2024 KPI booklet is now available for download.

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News from the Quantum Flagship

Have your say: 2025 Global Quantum Needs Assessment

Diversity in Quantum and the Quantum Flagship have launched the '2025 Global Quantum Needs Assessment'.

Looking back on 100 years of quantum while also looking ahead – your input can help shape the next 100 years of quantum science to be more inclusive, innovative, and representative of our global community. **Please take 5-10 minutes** to complete the survey and contribute to efforts that:

- Identify unmet needs in the quantum science community
- Evaluate what's working – and what isn't – in research, education, and industry
- Benchmark representation and lived experiences across the field

Participants may opt into a draw for travel scholarships and volunteer for follow-up interviews on their experiences in quantum.

[TO SURVEY](#)

News from the Quantum Flagship

QT job market: Data driven analysis of over 3,000 jobs

A recent study conducted by the [European Quantum Readiness Centre](#) provides insights into the evolving QT job market, revealing that the U.S. and Europe lead in QT job opportunities.

Using advanced language models and human validation, the researchers developed an algorithm to extract and classify 3,641 jobs posted worldwide. The study shows a rising demand for engineers, software developers, and PhD-level researchers. While industry applications are expanding, most jobs remain highly technical and are primarily driven by major technology firms. To close the workforce gap, investing in education and promoting industry-academia collaboration is essential. The study highlights the need for specialised programmes and partnerships to train future QT professionals.

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News from the Quantum Flagship

New survey reveals public support for quantum science and technology

On World Quantum Day, 14 April, the first European survey on public attitudes towards quantum science and technology was released, revealing growing public awareness and excitement. Conducted by YouGov in France and Germany, surveying over 3,000 adults, it found 78% are aware of quantum technology, with 53% excited about its potential to solve challenges in healthcare, energy, climate change, and cybersecurity.

The survey also highlighted high optimism, with 47% of those surveyed believing QT will positively impact their countries in the next five years. Despite widespread awareness, only 29% fully understand quantum science. The survey underscores the importance of public engagement as Europe continues to invest strongly in QT via the Quantum Flagship and other initiatives.

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News from the European Commission

Funding for QT

€10mil call for Quantum Skills Digital Academy

The DIGITAL Europe Programme has opened the *8th Call for Sectoral Digital Skills Academies*, with the mission of establishing academies in key digital fields, including Quantum. The call is open until **2 September 2025** with €10mil of EU funding.

This initiative aims to address critical talent shortages in quantum technologies by developing specialised education and training programs to enhance the EU's technological sovereignty and innovation capacity. Each academy will serve as a hub for education, training, and community-building activities, hosted on the Digital Skills and Jobs Platform.

Join the **Info Day on 16 May 2025** to get more insights on the new call.

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Open call

Become part of the Quantum Flagship's Strategic Advisory Board

The Quantum Flagship's *Strategic Advisory Board* (SAB) is being renewed – a unique opportunity for individuals and organisations to help guide Europe's quantum future.

The SAB advises the European Commission on the implementation of the Quantum Strategy and the forthcoming Quantum Act, ensuring that Europe's research excellence continues to drive innovation and strategic leadership. Organisations

bringing quantum technologies to market and independent academic leaders acting in the public interest are most valuable to this course.

If you are a motivated expert from industry, an RTO, or academia eager to help shape Europe's quantum leadership submit your application by **30 April 2025**.

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Open call

European Innovation Council seeks new board members

The European Commission is seeking applications for new members of the European Innovation Council (EIC) Board, a high-level expert group that advises on breakthrough innovation in Europe.

The board, consisting of 15-20 independent members – including entrepreneurs, corporate leaders, investors, researchers, and public administration experts – plays a crucial role in shaping the EIC's strategy, overseeing funding program implementation, and enhancing Europe's innovation ecosystem. This includes [funding quantum technology start-ups](#), which the EIC has a strong track-record of doing.

The deadline for applications is **19 May 2025**.

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News from the QT Projects

QLSI and OpenSuperQ+ projects

Public quantum computing platform updated: Quantum Inspire 2.0

Supported by Quantum Flagship projects [OpenSuperQ+](#) and [QLSI](#), TNO and QuTech have launched *Quantum Inspire 2.0*, an update to Europe's first freely accessible quantum computing platform. This sees the introduction of software improvements and two new hardware backends, free to use: the seven-qubit *Starmon-7* and the six-dot *Spin-2+*.

The interface offers an enhanced user experience, while the improved cloud platform equips users with new quantum compilers and support for Qiskit and PennyLane. It

offers integrated hybrid quantum and classical computing, using a 34 TB HPC node provided by SURF.

Meanwhile, both a new superconducting qubit and a spin qubit quantum computer have been introduced. *Spin-2+*, for example, boasts up to 10x improved performance parameters over its predecessor: 99,9% single-qubit fidelity, 95,5% two-qubit gate fidelity and 98% readout fidelity.

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SPINUS project news

SPINUS reaches milestones towards scalable solid-state quantum computing

The SPINUS consortium met in Trento, Italy, in February 2025 to discuss technical progress, gain strategic input from its External Advisory Board, and exchange know-how during a networking event.

Key advances include spin control with phase gates between NV centres, nitrogen-spin polarisation via PulsePol, and synthesis of high-quality SiC and diamond structures. Quantum simulators now control over 40 spins and show dissipative phase transitions. Colour-centre quantum computers saw improved entangling gates and high-fidelity qubit operations in registers of up to seven qubits. Electrical readout, benchmarking, and spin network simulations were enhanced.

Running until late 2027, the SPINUS project will continue to pursue its novel strategy for scalable solid-state quantum simulation and computation hardware, based on nuclear spin networks and dipole-dipole entangled electron spins.

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QIA project news

QIA opens applications for *Building for One Europe* Internship Programme 2025



QUANTUM
INTERNET
ALLIANCE

Building for One Europe Internship Programme 2025

Application period: 14 April to 31 May 2025



Co-funded by
the European Union

The Quantum Internet Alliance (QIA) has launched the third round of its *Building for One Europe* Internship Programme 2025.

The programme offers five internship **grants of up to €5,000** each for students and young professionals from countries not yet represented in QIA. Internships are hosted by nine QIA sites across seven European countries, providing hands-on experience in quantum technologies such as nanophotonics, communication, computing, and sensing. Applicants will engage in both experimental and theoretical work. The application deadline is **31 May 2025**.

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QIA project news

QIA Conference Day at the Quantum Meets '25

NOW OPEN FOR REGISTRATIONS



QIA Conference Day at the QUANTUM MEETS '25

13 May 2025 | Amsterdam, NL

As the opening event of *Quantum Meets '25*, QIA is bringing together world-class researchers, industry leaders, and policymakers to explore the potential of quantum networking at the QIA Conference Day at Het Sieraad in **Amsterdam**, the Netherlands, on **13 May 2025**.

This event will feature the latest advancements, practical applications, and QIA's progress toward Europe's first quantum internet prototype. Sessions will highlight how quantum communication can address real-world challenges, such as ultra-secure transactions, enhanced data privacy, and improved network infrastructures.

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News from the Community

News from QuIC

QuIC publishes recommendations for the EU Quantum Strategy

The European Quantum Industry Consortium (QuIC) has published a new position paper outlining key priorities to strengthen Europe's leadership in QT.

The recommendations focus on accelerating investment in quantum hardware and chips, securing supply chains, supporting talent development, and enabling stronger industrial coordination. The report also highlights the importance of a unified EU approach to commercialization, IP, and international collaboration. The paper is targeted towards policymakers, researchers, and industry stakeholders shaping the future of quantum in Europe.

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Standardisation news

JTC22-WG2 develops test standard for ion traps

A European norm on "Characterization methods for ion traps used in quantum computing and sensing" is being developed by CEN-CENELEC JTC22-WG2, led by the Physikalisch-Technische Bundesanstalt (PTB) with support from industry and academia.

The aim is to create a standardised framework for specifying and testing ion traps, enabling fair comparisons across devices. This effort will support collaboration and progress in both research and industry. The detailed scope of the work is described [here](#) (login needed, see button below).

The online kick-off meeting takes place on 12 May 2025. Interested parties should contact their national standards body representative via the button below. For more info contact [Andre Kulosa](#) (PTB).

[TO JTC22 STANDARDISATION](#)

Quantum City Prize launched on the World Quantum Day



World Quantum Day was celebrated across the globe on 14 April with inspiring activities and events. To mark this year's celebration, the Quantum City Prize was officially launched. This initiative rewards creative projects bringing Quantum Science and Technology into the public spaces of cities, transforming urban environments into stages for scientific discovery.

Unlike traditional events, where the public needs to register or travel to a specific venue, this prize will highlight projects in which quantum content is spontaneously accessible in the everyday life of the city inhabitants.

Get creative. Let's Quantum: bringing science to people, right where they are. Celebrate World Quantum Day – every day in 2025 and everywhere.

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Responsibility

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