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PsiQuantum, the University of Tokyo, and Mitsubishi Chemical Corporation Announce Partnership to Bolster Quantum Workforce Development in Japan

PsiQuantum
Graduate School of Engineering, the University of Tokyo
Mitsubishi Chemical Corporation

PsiQuantum, the University of Tokyo, and the Mitsubishi Chemical Corporation today announced the creation of a new partnership to provide education and training for Japan's growing quantum workforce. This initiative is supported by the Government of Japan's New Energy and Industrial Technology Development Organization (NEDO) under the Post-5G Information and Communication Systems program (2025–2027).

As fault-tolerant quantum computing emerges as a key technology for future industrial applications, the demand for highly skilled quantum professionals is rapidly increasing worldwide. This new partnership underscores the increasing strength of the quantum ecosystem in Japan, as well as the critical role of a strong workforce in achieving the full promise of utility-scale quantum computing.

The program is jointly conducted by PsiQuantum, the University of Tokyo, and Mitsubishi Chemical Corporation, combining academic education, industrial application development, and advanced quantum computing technologies. The University of Tokyo leads the educational curriculum, Mitsubishi Chemical Corporation contributes industrial use cases in chemistry and materials science, and PsiQuantum provides expertise in fault-tolerant quantum computing and related software tools.

Together, the three partners have launched a six-month training program for participants from the private sector and academia. More than 80 participants from over 20 companies with operations in Japan have already joined the program. Attendees will learn more about the fundamentals of fault-tolerant quantum computing, explore potential use cases across a range of sectors, and gain experience using advanced tools such as Construct, PsiQuantum's secure, end-to-end platform for designing, analyzing, and optimizing algorithms for fault-tolerant quantum computing.

Subsequent phases over the next two years will focus on joint research and development opportunities in chemistry and materials science applications, with the shared objective of advancing toward deployment on fault-tolerant quantum computers.

"Fault-tolerant quantum computers will only reach their full potential if we are prepared to use them effectively once they are built and deployed," said Victor Peng, PsiQuantum Interim Chief Executive Officer. "We are proud to partner with the Mitsubishi Chemical Corporation and the University of Tokyo to further strengthen and prepare Japan's globally recognized quantum workforce—and we are grateful to the Government of Japan for their support."

"Developing human resources capable of connecting quantum technologies with real-world challenges is essential for the advancement of quantum computing," said Takeshi Sato, the University of Tokyo Associate Professor. "Through this partnership, we aim to provide students

and professionals with hands-on experience in both the theoretical foundations and practical applications of fault-tolerant quantum computing."

"Quantum computing has the potential to significantly accelerate innovation in chemistry and materials science," said Qi Gao, Mitsubishi Chemical Corporation Distinguished Scientist. "By collaborating with the University of Tokyo and PsiQuantum, we aim to cultivate the next generation of quantum professionals while exploring future industrial applications of fault-tolerant quantum computing."

This initiative represents one of Japan's first structured training programs focused specifically on fault-tolerant quantum computing and aims to advance the long-term development of a sustainable quantum innovation ecosystem in Japan.

・About PsiQuantum
PsiQuantum was founded in 2016 and is headquartered in Palo Alto, California. The company's mission is to build and deploy the world's first useful quantum computers. PsiQuantum's photonic approach enables it to leverage high-volume semiconductor manufacturing, existing cryogenic infrastructure, and architectural flexibility to rapidly scale its systems. Learn more at www.psiquantum.com.

・About The University of Tokyo
The University of Tokyo is Japan's leading university and one of the world's top research universities. The vast research output of some 6,000 researchers is published in the world's top journals across the arts and sciences. Our vibrant student body of around 15,000 undergraduate and 15,000 graduate students includes over 5,000 international students.
https://www.u-tokyo.ac.jp/en/index.html

・About the Mitsubishi Chemical Corporation
Mitsubishi Chemical Corporation, established in 1933, is a comprehensive chemical manufacturer that provides a wide range of materials, from basic chemicals to performance products. The company operates globally across diverse fields including mobility, semiconductors and communications, food, medical, and infrastructure. Mitsubishi Chemical aims to be a "Green Specialty Company" committed to solving social problems and to delivering impressive results to customers with the power of materials, under our Purpose that "We lead with innovative solutions to achieve KAITEKI, the well-being of people and the planet."
https://www.m-chemical.co.jp/en/products/

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