

# IBM Quantum to Establish Its First Quantum Data Center in Europe

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IBM Quantum, the **quantum computing** division of tech giant IBM, has unveiled plans to construct its first quantum data center in Europe. This move aims to provide businesses, research institutes, and governmental organizations with easier access to cutting-edge quantum computing technology. The new data center, set to be operational in 2024, will house multiple IBM quantum computing systems, each equipped with utility-scale quantum processors boasting more than 100 qubits.

Located in **Ehningen, Germany**, the facility will serve as IBM Quantum's European cloud area, allowing users from around the world to leverage its resources for cloud-based quantum computing research and exploratory activities. One of the primary objectives of the data center is to assist customers in complying with European data law by processing all employment data within the EU. The upcoming center will mark IBM's second foray into quantum data centers and quantum cloud areas, following its existing facility in **Poughkeepsie, New York**.

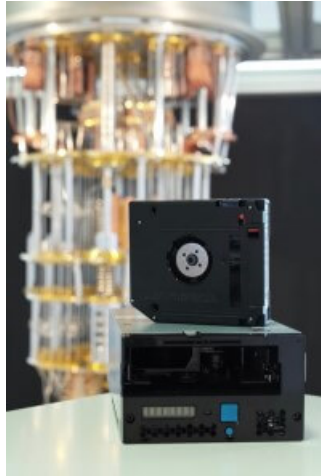
Europe has proven to be a fertile ground for quantum computing, with a growing number of advanced users in the region, the vendor stated. **IBM Quantum** recognizes this trend and aims to cater to the increasing interest by establishing the quantum data center and related cloud region. **Jay Gambetta, IBM Fellow and Vice President of IBM Quantum**, expressed his confidence in Europe's quantum computing potential, stating, "Europe has some of the most advanced users of quantum computers, and interest is only accelerating with the era of utility-scale quantum processors. The new data center is expected to provide European consumers with additional opportunities to harness the power of quantum computing in addressing

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# Quantum Hardware and Software



IBM Quantum Computing

IBM's commitment to Europe would extend beyond the establishment of the quantum data center. More than 60 organizations in Europe are already leveraging the IBM Quantum Network, which provides access to **quantum hardware and software**. Among the notable participants in this network are Bosch, the Bundeswehr University, CERN, DESY, Fraunhofer-Gesellschaft, PSNC, and T-Systems. These organizations are actively exploring the potential applications of quantum computing in diverse fields such as material research, high-energy physics, energy transition, sustainability, and finance.

**Dr. Raoul Klingner, Director Research at Fraunhofer-Gesellschaft**, expressed his enthusiasm for IBM Quantum's decision to establish the European quantum data center in Ehningen, Germany. He noted that the facility's location in Baden-Württemberg would deepen the existing ecosystem between Fraunhofer, its clients, and partners from both industry and academia. This sentiment was echoed by **Adel Al-Saleh, member of the board of Deutsche Telekom and CEO of T-Systems**, who emphasized the importance of having a dedicated quantum data center in Europe to facilitate the exploration of quantum computing applications for their customers.

IBM's efforts to forge partnerships with prominent European entities, including businesses, academia, and governments, play a vital role in developing quantum technology and nurturing a quantum-ready workforce in Europe. The European cloud area would serve as a critical component of this strategy. Over 100 university courses in Europe currently utilize IBM Quantum and its free and open-source Qiskit software, empowering students to enhance their quantum skills. Additionally, IBM supports hackathons, seminars, and digital learning events, which have already benefitted one million students in Europe.

As the **quantum computing landscape** continues to evolve, IBM Quantum's investment in Europe's first quantum data center is poised to accelerate the region's quantum capabilities and foster innovation across various sectors. With the anticipated launch in 2024, businesses and research institutions in Europe would soon have increased access to the transformative power

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