

Global Research and Development Center for Business by Quantum-AI Technology

G-QuAT

- **Founded on July 27, 2023** -G-QuAT, a Japanese government initiative for quantum technology
- Serve as **a hub** for a **global quantum business ecosystem**
- **Cutting-edge quantum technologies** from fundamental research to practical deployment
- **Establishing key research infrastructure** through strategic global partnerships

R&D to scale quantum computers (QCs), use-case development, supply chain advancement, IP & standardization efforts, and talent cultivation—to foster a global business ecosystem.

ABCI-Q Quantum- Classical Hybrid Computing Infrastructure



Superconducting QC

Japan's first commercial quantum system



- Quantum + GPU, fused by low-latency network
- Pioneering real applications in materials, finance, drug discovery
- The International Users Service to launch **FY2026**

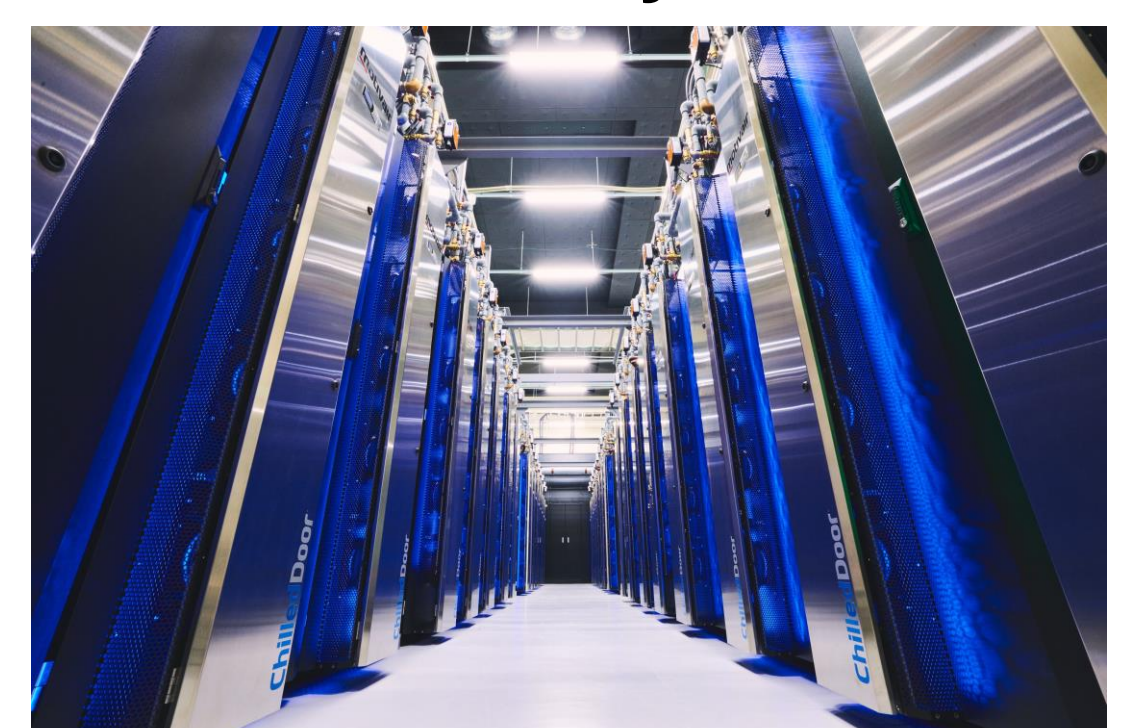
Neutral Atom QC

The world's most advanced platform



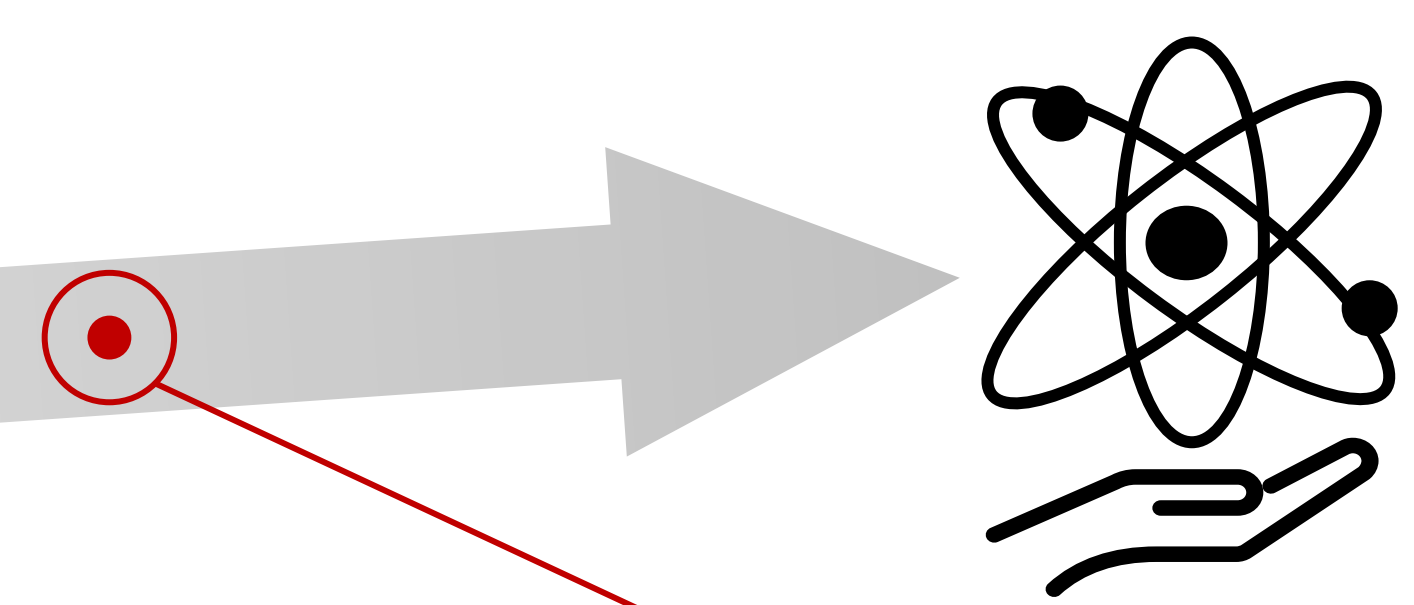
GPU Supercomputer

The world's first GPU-Quantum platform for industry & academia



System H (GPU Supercomputer)	
2,020 GPUs, 48,480 CPU cores	
650+ TiB Memory, 3,800+ TB NVMe SSD	
x 505	
GPU	NVIDIA H100 SXM5 (80GB) x 4
CPU	Intel Xeon Platinum 8558 (2.1GHz/48cores) x 2
Memory	1024 GiB
Local Storage	Micron 7450 SSD (NVMe) 3.84TB x 2
Interconnect	InfiniBand NDR (400 Gbps) x 2

Shape the **FUTURE** of Quantum Computing



One-Stop USER Access

- Remote access to diverse quantum cloud services



ABCI-Q G-QuAT GPU-HPC (2.1 EFLOPS)

- Gateway to QCs (Neutral Atom QC, Superconducting QC -Installed!)
- Optical QC Coming in 2026
- Software / Middleware Standardization
- Ising Machine, AI, Classical Solvers, etc.

Comprehensive Industrial Support

- Accelerate development.
- Reduce cost and risk.
- Strengthen competitiveness.
- Ensure secure, reliable operation.
- Access critical technical resources anytime.

