Foundational Quantum Technology and Quantum Life R&D Hubs (QST)



Quantum Science and Technology

1. Mission

Strengthen QST's R&D infrastructure, play a central role in the R&D for and supply of key materials for quantum devices, and take the lead in the R&D for and application of quantum life technologies as the integration of quantum technology with life science and medicine.

2. Activities

Through the application of quantum technology to medicine and industry, we contribute to the resilience and sustainability of a diverse society where the safety and well-being of all is ensured.

Establish testbed environments to accelerate the use in wide range of fields, promote the applications, industrialization and human resource development through industry-academia collaboration

Foundational Quantum Technology

Takasaki Institute for Advanced Quantum Science (Takasaki, Gunma)



- Development and Supply of Advanced Quantum Materials
- Construction and Operation of Open Platform for Industry





Photon Science (Kizugawa, Kyoto)

 Development and Application of Spin Control Technology using Advanced Lasers

Satellite Labs.





 Construction and Operation of Open Platform for Industry



Based on materials science, spintronics, photonics, electronics,

SPring-8 (Sayo, Hyogo) NanoTerasu (Sendai, Miyagi)



 Advanced Evaluation of Quantum Materials and Devices

Biosensors

Quantum Life R&D

This hub develops cutting-edge base technologies for life science and



Support Programs for Industry

We provide education, consultation, and environment for trials on quantum technologies through a one-stop support office in QST.



1 Technical Consulting A quantum technology advisor will respond to your questions and consultations.

Human Resources Development



2 Trial by Testbed

We prepare testbeds where you can actually experience measurements using solid-state quantum sensors.

3 Education

We have educational training programs for corporate researchers, engineers, and young scientists.

4 Consulting for Collaboration We will respond to consultations regarding NDA, research collaboration, patent application, etc.