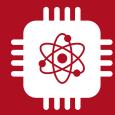


Quantum technology in the Basel Area

Ecosystem mapping series



Quantum technology in Switzerland



national research centers in quantum science



89%

of Swiss quantum research publications featured international collaborators



CHF 80 M

for the Swiss Quantum Initiative



\$500M

for the private initiative QuantumBasel Switzerland's first commercial quantum center



country to deploy a commercial quantum cryptography system



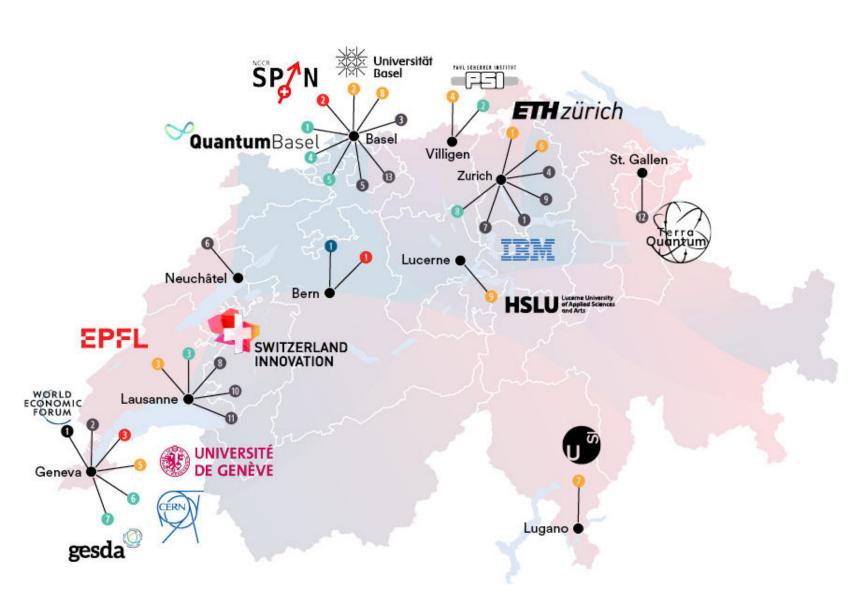
world best universities **ETH Zurich**



country in innovation



Major centers, companies and initiatives driving forward quantum R&D in Switzerland



National Initiatives (Headquarters)

- Swiss Quantum Initiative
- NCCR SPIN
- NCCR SwissMAP

University Centers and Research Hubs

- The Quantum Center at ETH Zurich
- The Basel Quantum Center and Swiss Nanoscience Institute at the University of Basel
- The Center for Quantum Science and Engineering (QSE) at EPFL
- The ETHZ-PSI Quantum Computing Hub
- The Quantum Center at University of Geneva
- Swiss Federal Laboratories for Materials Science and Technology (EMPA)
- Università della Svizzera italiana (USI)
- University of Applied Sciences and Arts Northwestern Switzerland (FHNW)
 Lucerne University of Applied Sciences and

Ecosystem Builders and Accelerators

- Switzerland Innovation Park Basel
- Switzerland Innovation Park Innovaare
- Switzerland Innovation Park West EPFL
- 4 QuantumBasel

Arts (HSLU)

- 6 QAI Ventures
- 6 CER
- The Geneva Science and Diplomacy Anticipator (GESDA)
- Verve Ventures

Private Companies and Centers

- IBM Research
- ID Quantique
- Basel Precision Instruments
- Qurich Instruments
- Qnami
- Swiss Center for Electronics and Microtechnology (CSEM)
- Swissphotonics
- Miraex
- QZabre
- D Ligentec
- Enlightra
- Terra Quantum
 lonQ

Government

Swissnex HQ

Other

World Economic Forum (WEF)





Focus on the Basel Area: a hub for quantum computing

Discover the world-class quantum ecosystem in the Basel Area bolstered by top universities, research centers, a leading innovation economy and deep international connections.



National initiative

3 Innovation parks and accelerators

3 Private companies

2 University centers and research hubs























Fachhochschule Nordwestschweiz





The Quantum computing hub in the Basel Area

Innovation parks and accelerators



Switzerland Innovation Park Basel Area offers advanced facilities and comprehensive services tailored to nurture enterprises and forge strategic partnerships.



QAI Ventures is a quantum-focused investor and accelerator, offering startups access to cutting-edge quantum hardware, mentoring, cash grants, and strategic connections to foster a global quantum ecosystem.



QuantumBasel is Switzerland's first commercial quantum center, embedded in uptownBasel. It specializes in quantum computing and Al and offers organizations in finance, manufacturing, life sciences, and logistics access to quantum systems through proof-of-concept projects and educational programs.

University centers and research hubs



Basel Quantum Center

The <u>Basel Quantum Center</u> comprises 15 research groups at the <u>University of Basel</u> working on condensed matter and optics for quantum computer and quantum sensing applications.



The University of Applied Sciences and Arts Northwestern Switzerland (FHNW) has a focus on quantum communication and applied quantum computing for the life sciences and photonics.

Private companies



Basel Precision Instruments pioneers ultra-low noise electronics and cryogenic equipment, unlocking new measurement capabilities in quantum computing and science.



<u>Qnami</u> specializes in quantum sensors for atomic-scale magnetic field measurements and high-precision imaging.



IonQ is a frontrunner in ion quantum computing, collaborates with Quantum Basel to set up a European quantum data center.

National initiative



NCCR SPIN develops from the University of Basel silicon-based spin qubits, uniting experts from University of Basel, IBM Research, ETH Zurich, and EPFL.



When we invest in your technology, you become part of the Basel Area ecosystem, with direct access to world-class universities and to one of the leading life science networks.



Alexandra Beckstein

Founder and head of QAI Ventures Board member of Basel Area Business & Innovation



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