Quantum Technology
The Netherlands

1st
TO DETECT THE
MAJORANA PARTICLE
in 2012

1st
TO BUILD A
LOOPHOLE-FREE BELL TEST
in 2015

1st
TO SHOW ON-DEMAND
QUANTUM ENTANGLEMENT
in 2018
**International Quantum Tech Hub**

*The Cradle of Quantum Innovation*

The Netherlands is a world leader in quantum technology, as the first to detect the Majorana particle in 2012, the first to build a quantum internet in 2015 and the first to show on-demand quantum entanglement in 2018. In addition, Holland is home to the first research center fully dedicated to quantum algorithm and software development: QuSoft, founded in 2015.

*Unmatched Business Advantages*

Ranked the No. 1 most competitive economy in Europe by the World Economic Forum (WEF) in 2019, the Netherlands is a stable and welcoming place to do business. Holland’s pro-business climate, multilingual workforce and fast-track visa for highly skilled migrants make it a seamless process to expand your business to Europe and recruit top talent from around the globe.

*A Countrywide Commitment*

The National Agenda Quantum Technology in Holland is supported by a variety of partners and funding, and has high ambitions:

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<tr>
<td>15+</td>
<td><strong>Universities and Research and Technology Organizations</strong></td>
<td>20+</td>
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<td>Create Quantum Sensor TESTBED</td>
<td>DEVELOP 1st European Quantum Computer</td>
<td>IMPLEMENT Nationwide Quantum Communication Network by 2023</td>
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**DID YOU KNOW...**

*The Netherlands is home to the world’s largest Internet exchange—AMS-IX.*
World-Class R&D and Talent

Dutch universities and knowledge institutes are leaders in the field of qubits, quantum internet, quantum algorithms and post-quantum cryptography, serving as a magnet for global business investments, groundbreaking research, and talent.

A Quantum R&D Ecosystem
The full quantum stack – from materials to qubits to quantum software – is developed within a two-hour drive in the Netherlands at over a dozen R&D institutes, including QuSoft, QuTech, and QT/e.

- **QuSoft**: Research collaboration fully dedicated to quantum algorithm and software development between the National Research Institute for Mathematics and Computer Science (CWI), the University of Amsterdam and the VU University Amsterdam. Partnerships with Bosch and ABN AMRO, among others.

- **QuTech**: Advanced research center for Quantum Computing and Quantum Internet, a collaboration between Delft University of Technology and the Netherlands Organization for Applied Scientific Research (TNO). Partnerships with Intel and Microsoft, among others. A thriving startup ecosystem, including Qblox, Bluefors and Delft Circuits.

- **QT/e**: Center for Quantum Materials and Technology Eindhoven (QT/e). Advanced materials, nanotechnology and integrated circuit development for quantum technologies, located at Eindhoven University of Technology (TU/e).

Quantum Engineers of Today and Tomorrow
- 70–100 Principal Investigators
- 200–250 PhDs in Quantum Technology
- 2,500+ MSc graduates in Quantum Technology per year
- QuTech Quantum Academy
- QuSoft Master Program
- Quantum Materials and Technology Certification at Eindhoven University of Technology (TU/e)

DID YOU KNOW...
The Python Programming Language was first developed by the Dutch National Research Institute for Mathematics and Computer Science (CWI).

Intel announced plans in 2015 to invest $50 million with QuTech, the quantum research institute of Delft University of Technology (TU Delft) and TNO, with the goal to accelerate quantum computing research over the next 10 years.

"Our collaboration with QuTech will explore quantum computing breakthroughs that could influence the industry overall."

Dr. Michael Mayberry
Chief Technology Officer
Intel
Want to learn more about investing in Holland? The Netherlands Foreign Investment Agency (NFIA) stands ready to help companies big and small at every stage of establishing or expanding operations here.

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