

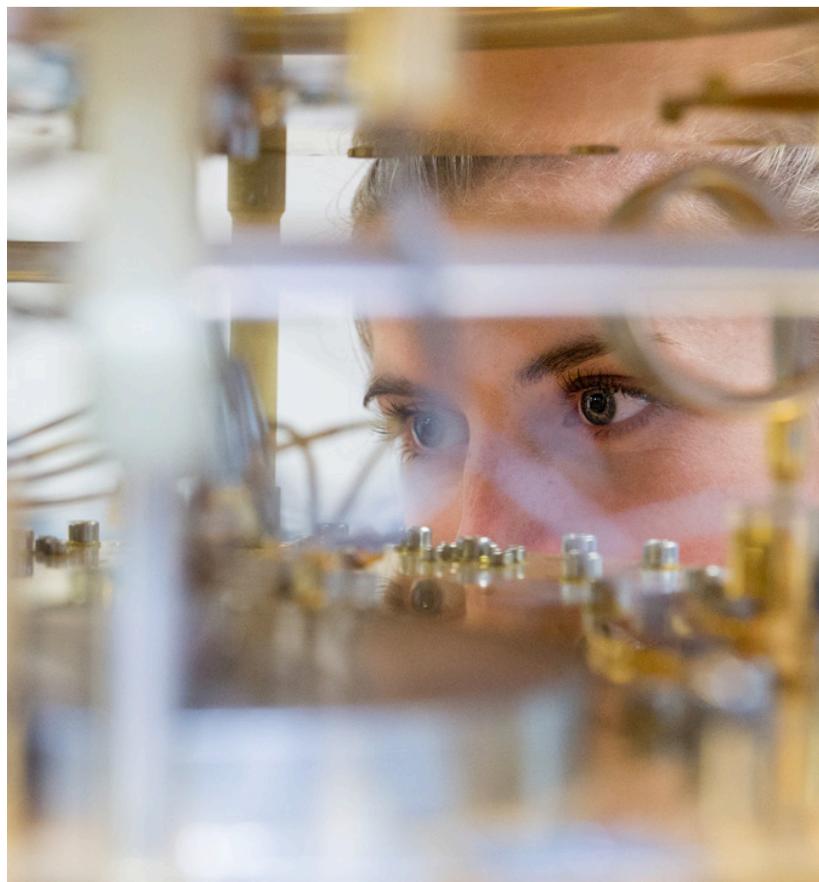
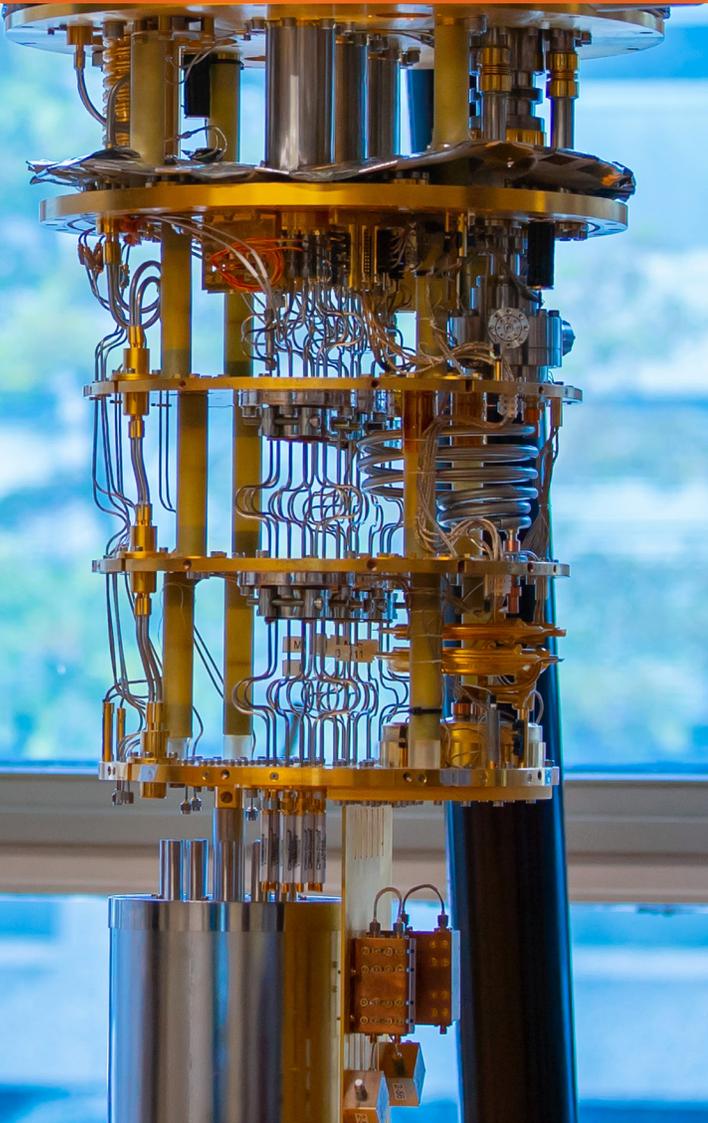
INVEST IN
HOLLAND



Netherlands
Innovation
Network

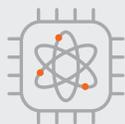
Quantum Technology

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

A pioneer in quantum technology with a history of innovation, the Netherlands is at the forefront of this groundbreaking industry, set to transform the technology landscape.

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:

15⁺

Universities and Research and Technology Organizations

20⁺

Companies, Including Microsoft, Intel, IBM, Shell, ABN AMRO and Juniper Networks

**420
Million
EURO BUDGET**

Create
**Quantum Sensor
TESTBED**

DEVELOP
1st
European Quantum
Computer

IMPLEMENT
**Nationwide Quantum
Communication Network
by 2023**

For more information about the National Agenda Quantum Technology, visit quantumdelta.tech.



The Microsoft Quantum Lab Delft, which was opened in February 2019 by King Willem-Alexander of the Netherlands, is the culmination of a partnership between Microsoft and QuTech, the advanced research center for Quantum Computing and Quantum Internet, to research collaboratively the building blocks for a quantum computer.

“ Together, we have built a world-class laboratory in Delft which will enable us to expedite development of a revolutionary quantum computer. The Netherlands now has the necessary ingredients to develop the type of computing power that could drastically change humankind's daily lives.”

Leo Kouwenhoven
Scientific Director
Microsoft Quantum Lab

DID YOU KNOW...

The Netherlands is home to one of the world's leading Internet exchanges—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, Quantum Delft, and QT/e.



The map shows the Netherlands with a central orange circle labeled "2-Hour Drive Radius" centered on Eindhoven. Four logos are connected to the map by dashed lines: QuSoft (Research Center for Quantum Software) in the north, Universiteit Leiden (The Netherlands) in the west, Quantum Delft (Ecosystem for Innovation) in the southwest, and TU/e (Eindhoven University of Technology) in the southeast.

- **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.
- **Quantum Delft:** A vibrant ecosystem in which researchers and companies benefit from proximity and create value in an inspiring environment with top of the line facilities. Quantum Delft is home to QuTech, labs of Microsoft and Bluefors, the Kavli Institute for Nanoscience and several quantum startups.
- **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).

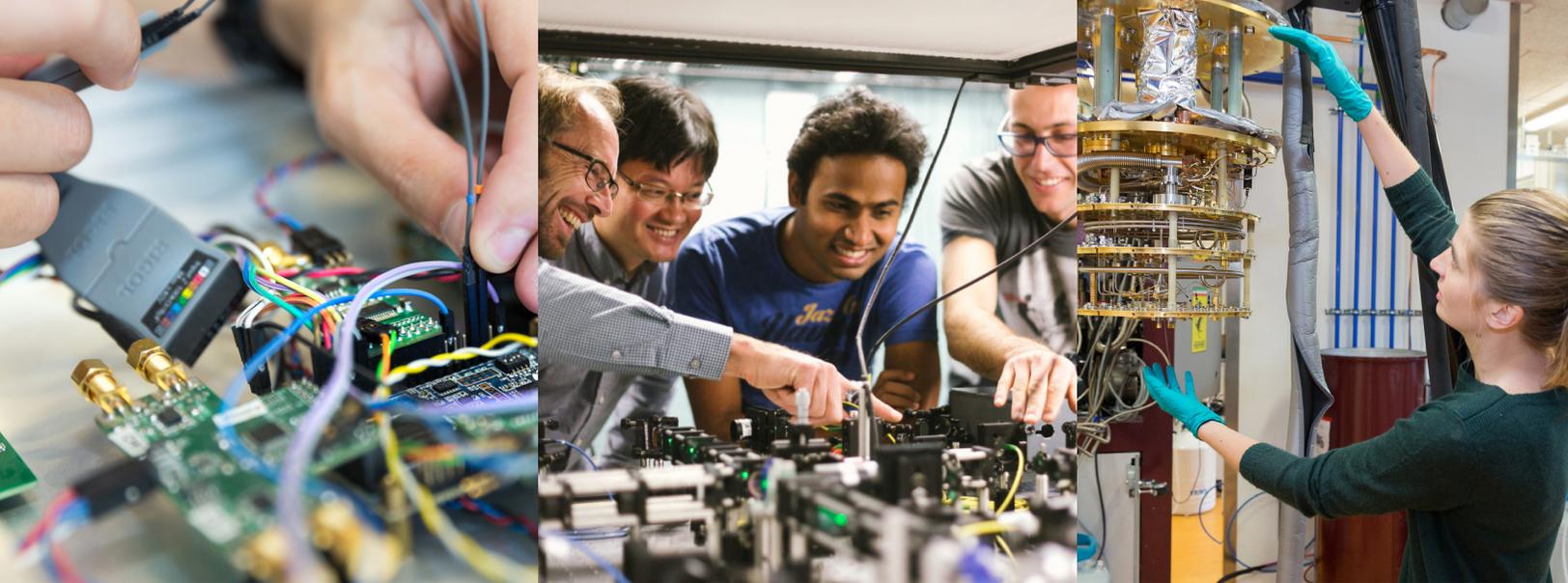


Intel announced plans in 2015 to invest \$50 million with QuTech, the quantum research institute of Delft University of Technology (TU Delft) and TNO, with the goal to accelerate quantum computing research over the next 10 years.

“

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

Dr. Michael Mayberry
Chief Technology Officer
Intel



How We Can Help

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.

Visit www.investinholland.com to set-up a meeting with an NFIA representative near you.

Want to learn more about innovation in Holland? The Netherlands Innovation Network can bring you up to speed regarding the most recent initiatives in quantum information science and related fields.

Visit www.nlintheusa.com/innovation-network to read more and get in touch with one of our colleagues.



We connect you

with local networks, regulators, clusters, scientists, entrepreneurs and consultants.



We organize

custom-made fact finding trips for your investment | R&D project.



We inform you

about new R&D opportunities, incentives, business locations, regulations and procedures.



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Photo Sources:

Tim Herman/Intel Corporation
QuTech

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