

The World's Leading Quantum Platform and Foundry



IonQ is the world's leading full-stack quantum platform and foundry, delivering integrated quantum solutions across computing, networking, sensing, and security.

Quantum Computing

IonQ's quantum computers get to the right answer while leading the industry in time-to-solution and cost-to-solution.

- Published the industry's first complete engineering blueprint for fault-tolerant quantum computing
- Industry-leading roadmap — targeting 2 million physical qubits and 80,000 logical qubits by 2030

Quantum Networking

IonQ is deploying real quantum networks and creating a path toward distributed quantum computing and future quantum services.

- Operates live quantum networks spanning fiber, free space, and space-to-ground links
- Builds interconnects linking multiple qubit types, selected by DARPA

Quantum Security

IonQ helps organizations evolve for the post-quantum era with technologies spanning PQC, QKD, key management, and more.

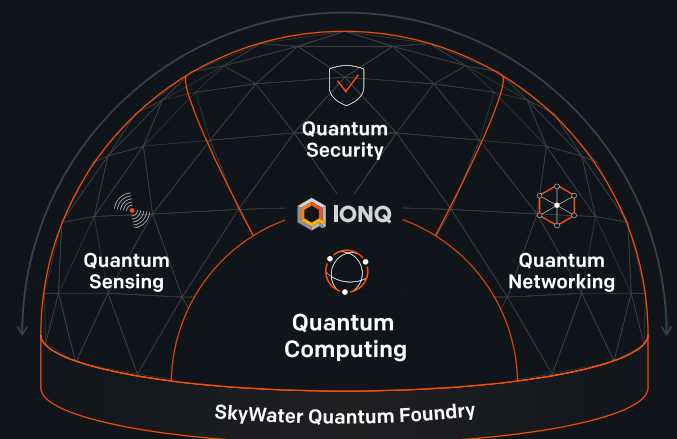
- Aligned with EO 14412 and NIST to address harvest-now-decrypt-later risks
- Deploys on existing fiber alongside standard network traffic

Quantum Sensing

IonQ's positioning, navigation, and timing solutions are deployed across land, sea, air, and space where existing solutions are bound to the lab.

- Fields atomic clocks leading the market on accuracy in rack-mountable form
- Provides commercial geospatial intelligence with automated, millimeter-scale Earth monitoring

The Full-Stack Quantum Platform



Delivering Quantum Value and Metrics that Matter

IonQ's quantum talent and solutions are leading the industry in both technical and commercial measures.

99.99%

record 2-qubit gate fidelity and proprietary Electronic Qubit Control

1,000x

faster time to reach accurate solution¹

300+

PhDs with deep scientific and engineering backgrounds

1,200+

patents granted and pending worldwide²

Trusted by Global Customers

We are building the quantum future alongside the world's most innovative organizations.



DARPA

einride

SYNOPSYS

SAMSUNG

T-Mobile

AIRBUS

AstraZeneca

¹ Tested on the most current platform from a leading superconducting quantum computer.
² Includes owned and controlled patents granted and pending as of July 2026.

Real-World Commercial Validation



Delivering 125 optical atomic clocks to the U.S. government

At 1/75th the volume of previous technology, IonQ clocks offer a timing error of less than one second over 30 million years.



The first networked commercial quantum computers

With the U.S. Air Force Research Laboratory, IonQ entangled two trapped-ion systems over a photonic link into one connected machine.



Deployed one of Europe's largest quantum key distribution (QKD) networks

36 quantum-secured links span more than 1,500 kilometers across Romania.



Defending Geneva's data centers against future decryption

IonQ and Cisco secured Switzerland-based data center links with quantum keys, before harvested traffic can ever be decrypted.



Faster time-to-solution in drug discovery

We recently achieved 656x faster time-to-solution in drug discovery with AstraZeneca and 12% improvement over classical heuristics with Synopsys.



Making AI a working layer of the quantum computing stack with NVIDIA

A trained model now writes quantum circuits, keeping solve time near 28 seconds as problems scale, and roughly doubling answer quality.

IonQ's Expanding Global Footprint



USA

Chattanooga, TN
Washington, DC
Boston, MA
College Park, MD
Rome, NY
Bothell, WA
San Francisco, CA
Pleasanton, CA
Vista, CA
Boulder, CO
Louisville, CO

Canada | Toronto

South Korea | Seoul

United Kingdom | Oxford

Sweden | Gothenburg

Switzerland

Basel | Geneva

Austria | Vienna

Italy | Rome

Contracted and deployed in over 30 countries



Supported by Global Partners in the Quantum Ecosystem

From clouds providers and national laboratories to universities, industry leaders, and regional governments, dozens of partners build with IonQ to unlock quantum value.

Cloud



Academia



Industry



Regional



Accelerate Real-World Quantum Value with IonQ Today

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This document contains forward-looking statements, including statements regarding our quantum computing roadmap. These statements are only predictions based on our expectations on the date of this document and are subject to a number of risks, including, among others, those described in our Annual Report on Form 10-K for 2025 and our Quarterly Report on Form 10-Q for the second quarter of 2026, each filed with the SEC. New risks emerge from time to time. We undertake no obligation to update any forward-looking statement, except as required by law.

Learn more at
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