

Neutral Atom Quantum Computer Global Market Report 2025: Exponential Growth and Emerging Trends in Quantum Computing

*The Business Research Company's
Neutral Atom Quantum Computer Global
Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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/EINPresswire.com/ -- The [neutral atom
quantum computer market size](#) has

made significant strides in recent years. It's predicted to see a jump from \$0.73 billion in 2024 to \$0.93 billion in 2025, reflecting a compound annual growth rate CAGR of 26.6%. The growth in the historic period can primarily be attributed to factors such as growing research interest in alternative quantum modalities, rising academic collaborations, and increasing funding for



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quantum research. There's also been a spike in demand for scalable quantum architectures and expanding government support for foundational quantum projects.

How Big Is the Global [Neutral Atom Quantum Computer Market](#) Expected to Grow, and What Is Its Annual Growth Rate?

Moreover, the neutral atom quantum computer market size is pegged for exponential growth in the foreseeable future. It is projected to rise to \$2.36 billion in 2029 at a

compound annual growth rate CAGR of 26.2%. The forecast period's growth is expected to be driven by rising investments from tech giants, increasing demand for error-resilient quantum systems, and the burgeoning need for high-fidelity qubit control. Other contributing factors include expanding applications in material science and cryptography and increasing commercial partnerships and pilot programs.

Key trends for the forecast period include technological advancements in atom trapping techniques, innovation in laser-based qubit control systems, research and development in error

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correction methods, the development of scalable neutral atom processors, and integration with quantum hybrid systems.

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What Is Driving the Growth of the Neutral Atom Quantum Computer Market?

An exploration of the neutral atom quantum computer market's growth drivers reveals a surge in demand for quantum computing solutions. These refer to technologies, software, and services that leverage the principles of quantum mechanics to perform computations far more efficiently than classical computer systems for specific complex problems. As the need for complex problem-solving capabilities beyond classical computers arises, the quest for quantum computing solutions continues to grow. Neutral atom quantum computers capitalize on this need by offering highly scalable and reconfigurable architectures that promote advanced problem-solving across industries.

These quantum computers significantly enhance computational efficiency by enabling precise quantum operations with long coherence times, thereby fast-tracking optimization, cryptography, and material science innovation. For instance, according to Quantum Insider - a Canada-based media and market intelligence platform - the quantum computing vendor revenue reached \$1 billion in 2024 and is expected to grow significantly expanding to around \$5 billion by 2030.

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Which Leading Companies Are Driving The Growth Of The Neutral Atom Quantum Computer Market Share?

Now, exploring the major players in this expanding neutral atom quantum computer market, we find a list that includes Google LLC, Microsoft Corporation, Amazon Web Services Inc., Intel Corporation, International Business Machines Corporation IBM, and Honeywell International Inc. Other notables include NVIDIA Corporation, Atos SE, ColdQuanta, Xanadu Quantum Technologies Inc., QuEra Computing Inc., Q-CTRL Pty Ltd., PASQAL SAS, Atom Computing Inc., IonQ Inc., D-Wave Systems Inc., qBraid, Planqc Inc., M Squared Lasers Limited, and Classiq.

What Are The Key Trends Driving The Growth Of The Neutral Atom Quantum Computer Market Size?

A key emerging trend found within the neutral atom quantum computer market companies is their focus on alliance partner programs to enhance computational scalability, reduce error rates, and accelerate the development of real-world quantum applications across industries. A

prime example of this is QuEra Computing Inc. launching the QuEra Quantum Alliance Partner Program to hasten the advancement and adoption of neutral-atom quantum computing.

How Is the Global Neutral Atom Quantum Computer Market Segmented?

The neutral atom quantum computer market is segmented by adiabatic quantum computers and gate quantum computers - the latter types solving problems by slowly evolving the system's quantum state from an initial simple state to the final solution-state. By components, the market is segmented into hardware, software, and services whilst the technology type includes trapped atomic systems, optical lattice systems, atom-photon interfaces, and quantum dot systems.

What are The Leading Region in the Neutral Atom Quantum Computer Market?

From a regional perspective, North America held the largest share in the neutral atom quantum computer market in 2024, with Asia-Pacific predicted to be the fastest-growing region in the forecast period.

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Americas +1 3156230293

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Oliver Guirdham

The Business Research Company

+44 20 7193 0708

info@tbrc.info

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