

Global Quantum Annealing Market Forecast: Key Growth Drivers, Trends, and Opportunities from 2025 to 2034

The Business Research Company's Quantum Annealing Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Quantum Annealing Global Market Report 2025

What Does The Data On The [Quantum Annealing Market](#) Size Indicate?

The rapidly growing quantum annealing market is set to rise from \$0.54 billion in 2024 to \$0.63 billion in 2025, marking a compound annual growth rate CAGR of 17.1%. The past growth can be attributed to increasing demand for optimization solutions, advancement in quantum computing algorithms, rising need for improved computational power, expansion of artificial intelligence applications, and government and private sector investments in quantum research.

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What Are The Market Projections For The Quantum Annealing Industry?

Looking to the future, the quantum annealing market is

poised to reach \$1.17 billion in 2029, realizing a CAGR of 16.7%. Factors driving this growth include growing adoption of quantum computing for problem-solving, increasing investment in quantum technologies, demand for faster and more accurate optimization solutions, collaborations between quantum hardware and software companies, and the integration of quantum annealing in industrial applications. Key trends in the forecast period include a focus on hybrid quantum-classical systems, the development of quantum annealing software platforms, increased use of quantum annealing in logistics and supply chain optimization, improved accessibility of quantum computing through cloud services, and the emergence of

quantum annealing applications in pharmaceuticals and drug discovery.

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What Are the Key Drivers Of The Quantum Annealing Market?

One crucial driver of the quantum annealing market's growth is the increasing demand for high-performance computing HPC solutions. These systems, combining powerful computers, networks, and software, quickly solve complex computational problems. As big data analytics grows, so too does the need for HPC to process large datasets efficiently. Quantum annealing enhances HPC by accelerating optimal solution searches, making it ideal for complex tasks in logistics, finance, and drug discovery. For instance, the European Union has allocated \$7.5 billion €7 billion to develop HPC infrastructure, expected to become operational by late 2024, thus driving Quantum Annealing demand.

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Which Companies Are The Key Industry Players In The Quantum Annealing Market?

Key industry players restraining the quantum annealing market include Microsoft Corporation, Hitachi Ltd., Lockheed Martin, Honeywell International Inc., Fujitsu Limited, Hewlett Packard Enterprise HPE, Toshiba Corporation, Q-CTRL Pty Ltd., Amgen, Cambridge Quantum Computing Ltd., Atos SE, IonQ Inc., NEC Corporation, IBM Corporation, Xanadu Quantum Technologies Inc., Google LLC, 1QBit Information Technologies Inc., Rigetti Computing, Quantum Circuits Inc., D-Wave Systems Inc.

What Are the Emerging Trends in Quantum Annealing Market?

Emerging trends in the quantum annealing market include companies developing innovative products with advanced technologies such as superconducting technology paired with ParityQC architecture. This fusion enhances the scalability and efficiency of quantum systems by enabling more stable qubit interactions, better error correction, and faster optimization problem-solving. For instance, in June 2023, NEC Corporation and Tohoku University developed an 8-qubit quantum annealing machine using superconducting parametrons and ParityQC architecture, available online for joint research on combinatorial optimization problems.

How Is The Quantum Annealing Market Segmented?

The Quantum Annealing market is segmented:

- 1 By Product: Quantum Annealing Hardware, Quantum Annealing Software, Quantum Annealing Systems, Quantum Simulation Platforms, Quantum Optimization Tools
- 2 By Deployment Type: On-premises, Cloud-based, Hybrid Solutions
- 3 By Application: Optimization, Machine Learning, Material Science, Financial Modeling, Other Applications

4 By End-User Industry: Automotive, Healthcare, Finance, Energy, Other End-User Industries

Subsegments include:

- 1 Quantum Annealing Hardware: Quantum Chips, Cryogenic Systems, Quantum Processors, Qubit Control Electronics
- 2 Quantum Annealing Software: Quantum Algorithms, Quantum Development Kits, Simulation Software, Optimization Software
- 3 Quantum Annealing Systems: Standalone Quantum Annealers, Hybrid Quantum-Classical Systems, Cloud-based Quantum Systems
- 4 Quantum Simulation Platforms: Quantum Circuit Simulators, Quantum State Tomography, Quantum Error Correction Simulators
- 5 Quantum Optimization Tools: Optimization Algorithms, Quantum Optimization Libraries, Quantum-based Solver Tools

What About Regional Insights in the Quantum Annealing Market?

In terms of regions, North America was the largest in the quantum annealing sector in 2024. However, Asia-Pacific is projected to be the fastest-growing region in the forecast period. The report covers Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

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Americas +1 3156230293

Asia +44 2071930708

Europe +44 2071930708

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Oliver Guirdham

The Business Research Company

+44 20 7193 0708

info@tbrc.info

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