

Quantum Computing Market by Offering, Deployment (On-Premises and Cloud), Application (Optimization, Simulation, Machine Learning), Technology (Trapped Ions, Quantum Annealing, Superconducting Qubits), End User and Region - Global Forecast to 2030

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Report description:

The quantum computing market is projected to reach USD 20.20 billion by 2030 from USD 3.52 billion in 2025, at a CAGR of 41.8% during the forecast period.

<https://mnmimg.marketsandmarkets.com/Images/quantum-computing-market2-overview.webp>

A major driver of the quantum computing market is the rising demand for high-performance computing to solve complex problems in drug discovery, financial modeling, and logistics optimization, where classical systems are limited. Strong government funding and corporate R&D investments further accelerate advancements. However, a key restraint is the high error rates and qubit instability, which hinder reliable large-scale computations. Additionally, high infrastructure costs and a shortage of quantum-skilled professionals pose challenges to widespread adoption.

"By deployment, cloud is expected to grow at the highest CAGR during the forecast period."

Cloud-based deployment is expected to grow with the highest CAGR as it provides cost-effective access to quantum systems without requiring heavy infrastructure investments. It enables enterprises of all sizes to experiment and scale applications through flexible, pay-as-you-go models. Leading providers like AWS, Microsoft Azure, and IBM are expanding QCaaS offerings, driving wider adoption. The growing need for remote accessibility and integration with existing cloud ecosystems further boosts this deployment model.

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"Optimization application is expected to secure the largest market share in the North American market during the forecast period."

In North America, optimization applications are witnessing strong growth as industries leverage quantum computing to solve complex logistical and operational challenges. Sectors like finance, supply chain, and energy are adopting quantum algorithms to improve efficiency and reduce costs. The region's strong ecosystem of tech companies and startups accelerates the development of quantum optimization solutions. Government and enterprise collaborations further strengthen North America's leadership in this application segment.

"North America to hold the second largest share of the quantum computing market during the forecast period"

North America is experiencing robust growth in the quantum computing market, supported by strong government initiatives and funding programs. The region hosts leading players such as IBM (US), Google (US), Microsoft (US), and AWS (US), who are driving advancements in hardware, software, and services. Collaboration between academia, research institutions, and enterprises is accelerating innovation and commercialization. Industries such as finance, defense, healthcare, and aerospace are early adopters, boosting demand. Overall, North America remains the major center of global quantum computing growth and leadership. The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

-□By Company Type: Tier 1 - 18 %, Tier 2 - 22%, and Tier 3 -60%

-□By Designation: C-Level Executives - 21%, Directors - 35%, and Others - 44%

-□By Region: North America- 45%, Europe - 38%, Asia Pacific - 12%, Rest of world- 5%

Key players in the quantum computing market are IBM (US), Amazon Web Services (US), Microsoft (US), Rigetti Computing (US), D-Wave Quantum Inc. (Canada), Intel (US), Google (US), Toshiba (Japan), Quantinuum (US), QC Ware (US), IonQ (US), 1QB Information Technologies Inc. (Canada), Huawei (China), Bosch (Germany), NEC (Japan), Alpine Quantum Technologies GmbH (Austria), Nippon Telegraph and Telephone (Japan), Hitachi (Japan), Northrop Grumman (US), Accenture (Ireland), Fujitsu (Japan), Zapata Computing (US), Xanadu (Canada), Riverlane (UK), Quantum Computing Inc (US), PsiQuantum (US), Algorithmiq (Finland), PHASECRAFT (UK), HQS Quantum Simulations (Germany), Strangeworks Inc. (US) and evolutionQ (Canada), Alice & Bob (France), Atom Computing (US) and Diraq (Australia).

Research Coverage

The report describes detailed information regarding the key factors such as drivers, restraints, challenges, and opportunities driving the growth of the market. The report also provides detailed technology trends, trade data, and patent analysis. This research report categorizes the quantum computing market based on offering, technology, application, end-user industry, deployment, and region. A detailed analysis of the major players includes insights into their business overviews, products offered, and significant strategies adopted that include new product launches, deals (acquisitions, partnerships, agreements, and contracts), and others (expansions), and the impact on the quantum computing market.

Reason to Buy This Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue for the overall quantum computing market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insight to position their business better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key drivers, restraints, opportunities, and challenges.

The report provides insights into the following pointers:

-□Analysis of key drivers (Rising adoption of quantum computing in various industries), restraints (Stability and error correction issues), opportunities (Growing adoption of quantum computing technology in drug discovery), and challenges (Physical challenges related to the use of quantum computers) of the quantum computing market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new

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product & service launches in the quantum computing market

-□Market Development: Comprehensive information about lucrative markets by analyzing the quantum computing market across varied regions

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the quantum computing market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and offerings of leading players in the quantum computing market, such as IBM (US), Amazon Web Services (US), Microsoft (US), Rigetti Computing (US), D-Wave Quantum Inc. (Canada), among others.

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