

Quantum Computing Market based on By Deployment (Cloud, On-premises), By Offering (System, Services), By End-user (BFSI, Chemical), By Application (ML, Simulation), Regional Outlook—Global Forecast up to 2030

https://marketpublishers.com/r/Q69D3A97384CEN.html

Date: April 2024

Pages: 187

Price: US\$ 4,500.00 (Single User License)

ID: Q69D3A97384CEN

Abstracts

With an emphasis on accelerating trade activities, transactions, and data processing manifolds, quantum computing is gaining popularity in the banking and finance services sector. Simulation is one of the major possible uses for quantum computing. The development of quantum computing points to a more effective and economical method of risk management for finances. In financial institutions, using classical computers might result in exponential increases in processing time and high-quality solution costs. Quantum computers, on the other hand, can do quick tasks at optimal costs, saving money and opening up new revenue streams.

One of the possible advantages of quantum computing for financial services is that it can offer pertinent and necessary cybersecurity solutions that use next-generation cryptography to protect customers' financial data. Furthermore, proactive fraud risk management is made possible by the quick detection of fraudulent activity through the use of quantum computing technology to identify customer behavior patterns. Furthermore, merging artificial intelligence (AI) with quantum computing can optimize the portfolio management of assets with interdependencies and predictive analytics in customer behavior. The development of the most hacker-proof technology in this IoT era is anticipated to result from the combination of blockchain technology with quantum computing. It is anticipated that this combination will also greatly improve transaction speed and lower processing costs in the banking and financial sector, which will minimize infrastructure downtime.



Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Quantum Computing Market scenario, extensive primary research was carried out. A number of primary interviews were carried out with industry experts from the supply and demand sides, including C- and D-level executives, product managers, and marketing and sales managers of major manufacturers, distributors, and channel partners from tier 1 and tier 2 companies offering Quantum Computing Market, as well as personnel from academia, research, and CROs. These interviews were conducted across five major regions: North America, Europe, Asia Pacific, and the Rest of the World (Latin America & the Middle East & Africa). Participants from the supply-side and demand-side participated in about 70% and 30% of the primary interviews, respectively. Through the use of questionnaires, emails, online surveys, in-person interviews, and phone interviews, this main data was gathered. The primary participants share is given below:

The segmentation coverage of the study is provided below.

Quantum Computing Market based on Offering:	
System	
Services	
Quantum Computing Market based on Deployment:	
On-Premises	
Cloud	
Quantum Computing Market based on Application:	
Optimization	
Simulation	

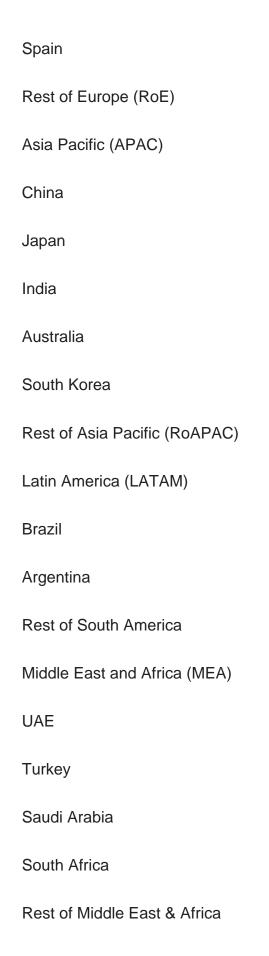
Machine Learning



Others

Quantum Computing Market based on End use:
Aerospace & Defense
BFSI
Healthcare
Automotive
Energy & Power
Chemical
Government
Others
Quantum Computing Market based on Geography:
North America
US
Canada
Europe
Germany
UK
France
Italy







In 2022, the market was dominated by the BFSI category, which held a 21.9% revenue share. The BFSI industry benefits greatly from quantum computing's quick data processing speeds, which are driving up demand for the technology. It provides the financial sector with the tools it needs to analyze data more quickly, particularly for jobs like identifying fraud, comprehending consumer behavior, and aiding in decision-making. This prevailing trend centers on utilizing the speed of quantum computing to extract meaningful information from large databases, hence increasing the effectiveness of various financial processes.

A revolutionary development in the world of drug research is quantum computing. By accurately predicting molecular behaviors, it speeds up the process of identifying possible drug candidates by enabling very precise simulations of complex molecular interactions. Deep insights into chemical structures are provided by quantum algorithms, which let researchers design drugs more quickly and affordably. This technology has the potential to accelerate the distribution of life-saving medications to people all across the world, which will eventually help patients everywhere.

Europe held a commanding 34.6% share of the market in 2022. The development of quantum computing technology requires a deep understanding of both practical engineering and fundamental physics. Consequently, the European regional market is witnessing an increasing trend of collaboration between the industrial and academic domains. This partnership is accelerating the development of new applications and technology for quantum computing. Several European quantum computing companies are collaborating with academic institutions and research centers to develop innovative quantum software and algorithms.

The emphasis on developing open-source quantum software is one of the major trends in quantum software development throughout Asia Pacific. This tactic helps businesses of all sizes benefit from quantum software's increased price and accessibility. The development of quantum software specifically for industries like healthcare, banking, and materials research is another noteworthy development. This strategy is essential to accelerating the adoption of quantum computing in various sectors.

In 2022, the system segment held a dominant market share of nearly 64.5%. The creation and implementation of quantum computing hardware and related systems are covered in this section. The field of quantum hardware was undergoing tremendous growth, encompassing quantum computers, qubit architectures, and quantum interconnects. Businesses were attempting to boost error correction methods, increase qubit density, and improve qubit quality. Hardware developments were essential to



attaining quantum supremacy and solving real-world issues.

In 2022, the on-premises category held a 50.3% revenue share, dominating the market. On-premises quantum computing solutions, wherein they maintained and ran their own quantum hardware, were the choice of certain businesses and research institutions. For delicate applications, this method offered more security and control. Organizations were increasingly implementing quantum software as a means of incorporating quantum algorithms into their current software frameworks. This included creating and implementing quantum software solutions for particular applications or sectors of the economy.

In 2022, the optimization category held a dominant revenue share of 31.6% in the market. One of the main application areas where quantum computing has great promise and is anticipated to have a large influence is the optimization sector. Due to the fact that quantum computing can solve intricate optimization problems faster than traditional computers, this market is seeing a number of growth trends. Supply chain and logistics processes are being optimized through the use of quantum computing. It can assist companies in determining more cost-effective transportation routes, lowering shipping expenses, minimizing inventory holding expenses, and enhancing supply chain effectiveness overall. This is especially helpful for businesses that have intricate distribution systems.

One notable development is the growing convergence of machine learning with quantum computing, where Quantum Machine Learning (QML) leverages quantum hardware and algorithms to support ML operations. The primary driving force behind this movement is quantum computing's ability to significantly speed up complex computations, which offers significant advantages for tasks like data analytics, optimization, and AI model training. It is anticipated that the ML industry will explore and use QML more when quantum technology becomes more robust and widely available. This could result in major improvements in the fields of AI and data science. Research and collaboration at the intersection of ML and quantum computing have the potential to drive advancement and creativity in both fields.

This report illustrates the most vital attributes of the Quantum Computing Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Quantum Computing Market growth on the basis of several segments in the market.



This report presents the predictions of the past and present trends of the Quantum Computing Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Quantum Computing Market.



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