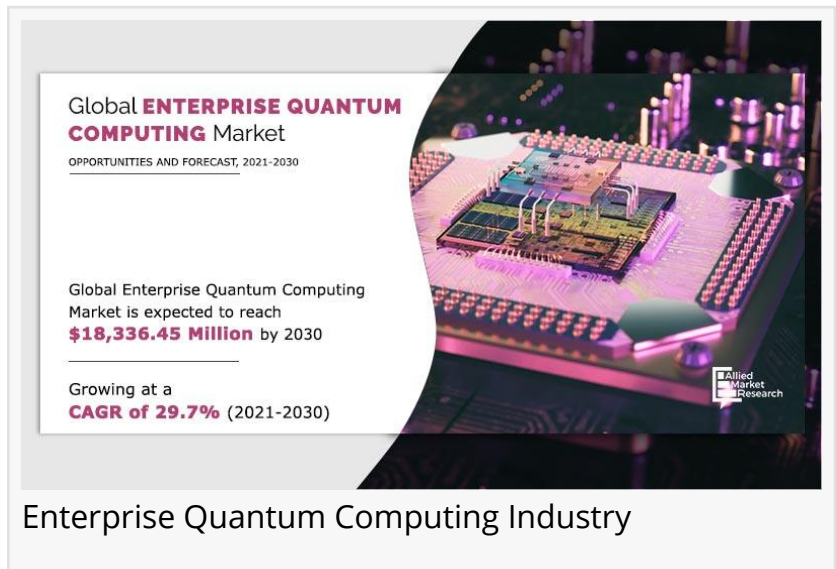


Enterprise Quantum Computing Market Set for 29.7% CAGR, Reaching \$ 18,336.45 Billion by 2030 | AMR

Rising demand for HPC, investments in quantum tech, and the need for quantum computing in medical research and finance drive enterprise quantum market growth.

WILMINGTON, DE, UNITED STATES,
December 16, 2024 /

EINPresswire.com/ -- According to a recent report published by Allied Market Research, The global [Enterprise quantum computing market](#) size was valued at \$ 1,370.82 Million in 2020, and is projected to reach \$ 18,336.45 Million by 2030, growing at a CAGR of 29.7% from 2021 to 2030.



Increase in demand for enhanced computing performance for data analysis and rise in usage of simulation & modeling in healthcare, BFSI, and energy sector drive the market growth. In addition, rise in need for secure computing platforms, the influx of huge amounts of data, and the increase in adoption of quantum computing technologies by numerous industrial sectors are also expected to drive the market growth.

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However, several technological challenges associated with programming quantum computers, and developing the quantum algorithms are expected to hamper the growth of the enterprise quantum computing market during the forecast period.

Depending on deployment mode, the cloud segment garnered the largest share in 2020, and is expected to continue this trend during the forecast period. This is attributed to numerous benefits provided by this cloud deployment such as high level of data security and safety. However, the cloud segment is expected to witness highest growth in the upcoming years. As

cloud deployment does not need any investment in IT infrastructure as all data is stored on cloud server, which increases the demand for of geospatial analytics software in small and medium-scale organizations.

Based on components, the hardware segment dominated the overall enterprise quantum computing industry in 2020, and is expected to continue this enterprise quantum computing market trends during the forecast period. This is attributed to increase in adoption of enterprise quantum computing solution among enterprises to gain strategic as well as competitive advantage and strong customer retention over their competitors. In addition, these solutions save both time as well as money, leverage existing data investments, and improve image analysis capabilities, with just a single software application. Moreover, quantum computing service providers are upgrading their software solutions to expand the range of enterprise quantum computing applications to reach more customers, which provides lucrative opportunities for market growth.

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However, the service segment is expected to witness highest enterprise quantum computing market growth, as service segment of enterprise quantum computing industry ensures effective coordination between software provider companies and users of enterprise quantum computing software by providing services such as implementation, training, consulting services, and managed services. The adoption of this software speeds up the customer satisfaction of various industrial verticals such as BFSI, IT & telecommunication, and healthcare, which maximizes the value of existing customer by optimizing their needs and minimizes the cost of operation. This further fuel the adoption of services that are needed to handle the software properly.

Depending on deployment mode, the on-premise segment garnered the largest share in 2020, and is expected to continue this trend during the forecast period. This is attributed to numerous benefits provided by this on-premise deployment such as high level of data security and safety. However, the cloud segment is expected to witness highest growth in the upcoming years. As cloud deployment does not need any investment in IT infrastructure as all data is stored on cloud server, which increases the demand for of Enterprise quantum computing software in small and medium scale organizations.

As per Enterprise quantum computing market forecast post COVID-19, the global Enterprise quantum computing market size is estimated to grow from \$ 1,761.50 Million in 2021, and reach \$ 18,336.45 Million by 2030, at a CAGR of 29.7%.

The COVID-19 outbreak has a positive impact on the growth of the Enterprise quantum computing market as Enterprise quantum computing technologies are helping enterprises to address the extensive capacity demand of data volume. The outbreak of COVID-19 has affected communities globally while governments and companies are trying their best to respond faster

to the challenges posed by this pandemic.

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However, from the last quarter of 2019, COVID-19 pandemic created an unbalanced health situation, with stringent restriction to maintain social distancing and lockdown implemented across world. Thus, with a major aim to contain this pandemic, majority of the economies have enforced completed shutdown, thereby leading to decline in business operations. Sectors such as manufacturing and transportation have been severely impacted, worsening the business scenario and resulting colossal monetary and employment losses. However, this pandemic has elevated the growth for the enterprise quantum computing market, and is expected to exhibit two fold increase during the forecast period.

Key Findings Of The Study

1. By component, the hardware segment dominated the enterprise quantum computing market in 2020. However, the service segment is expected to exhibit significant growth during the forecast period.
2. On the basis of Deployment Mode, the on premise segment accounted for the highest revenue of market in 2020; however, the cloud segment is expected to witness the highest growth rate during the forecast period.
3. On the basis of Technology, the superconducting segment accounted for the highest revenue of market in 2020; however, the quantum dot segment is expected to witness the highest growth rate during the forecast period.
4. Depending on the application, the Cyber security segment generated the highest revenue in 2020. However, the SMEs segment is expected to witness the highest growth rate in the near future.
5. Depending on the industry vertical, the healthcare & life sciences segment generated the highest revenue in 2020. However, the IT and telecommunication segment is expected to witness the highest growth rate in the near future.
6. Region-wise, the Enterprise quantum computing market was dominated by North America. However, Asia-Pacific is expected to witness significant growth in the coming years.

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This report gives an in-depth profile of some key market players in the enterprise quantum

computing market are Alibaba Group, D-Wave Systems Inc., Google, Huawei Technologies Co., Ltd., International Business Management Corporation (IBM), ID Quantique, Intel Corporation, Microsoft, Rigetti & Co, Inc., and Toshiba Research Europe Ltd. This study includes market trends, market analysis, and future estimations to determine the imminent investment pockets.

About Us:

Allied Market Research (AMR) is a full-service market research and business-consulting wing of Allied Analytics LLP, based in Portland, Oregon. AMR provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports" and "Business Intelligence Solutions." AMR has a targeted view to provide business insights and consulting to assist its clients in making strategic business decisions and achieving sustainable growth in their respective market domains.

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