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The Global Quantum Computing Market 2026-2046

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Abstracts

The quantum computing market has reached an unprecedented inflection point in 2025, characterized by accelerating technological breakthroughs, massive investment inflows, and the emergence of practical quantum applications across multiple industries. Building on the remarkable momentum from 2024, when global quantum investments surpassed $1 billion for the first time, the sector continues to attract record-breaking funding while demonstrating tangible progress toward commercial viability. The quantum computing ecosystem has evolved into a sophisticated, multi-layered market encompassing hardware platforms, software development tools, cloud services, and industry-specific applications. Multiple quantum technologies compete and complement each other, including superconducting qubits, trapped ion systems, photonic quantum computers, and emerging silicon spin qubits. This technological diversity reduces the risk of betting on a single approach while accelerating innovation across multiple pathways.

2025 has witnessed extraordinary investment momentum. Q1 funding included:

SandboxAQ secured a $150 million add-on funding round in April 2025, building on their massive $300 million raise in December 2024.

Quantum Machines raised $170 million, reflecting strong investor confidence in quantum control systems and infrastructure.

IQM Quantum Computers secured $73 million (€68 million).

The second quarter of 2025 witnessed further significant market activity, culminating in IonQ's groundbreaking $1.08 billion acquisition of Oxford Ionics, representing the largest transaction in quantum computing history. This mega-deal signals a fundamental

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shift toward consolidation and strategic technology integration within the quantum sector, while highlighting the critical importance of advanced control technologies for quantum scalability. Several key trends have emerged throughout 2025's funding activity. Average round sizes have increased substantially, with major transactions regularly exceeding $50 million, indicating growing investor confidence in quantum computing's commercial viability. Corporate strategic investors, particularly major technology companies like Google, Nvidia, Intel, and Microsoft, are making increasingly significant investments, recognizing quantum computing's strategic importance for long-term competitive positioning..The investment surge follows significant technical breakthroughs in 2024, including Google's Willow chip demonstration and major advances in quantum error correction. These achievements have accelerated investor confidence in the sector's commercial potential, particularly as quantum computing hardware approaches fault tolerance and practical applications become increasingly achievable.

The quantum computing market is positioned for continued explosive growth, driven by the convergence of technological advancement, substantial investment capital, and emerging practical applications across industries including financial services, pharmaceuticals, materials science, and artificial intelligence. The strong investment activity in early 2025, combined with continued technological progress and expanding industry adoption, suggests that quantum computing is transitioning from a purely research-focused field to a commercially viable technology sector poised for mainstream deployment over the next decade.

The Global Quantum Computing Market 2026-2046 represents the most comprehensive analysis of the rapidly evolving quantum computing ecosystem, providing critical insights into market dynamics, technological developments, investment trends, and future growth opportunities. This authoritative report delivers essential intelligence for stakeholders, investors, technology leaders, and policy makers navigating the quantum revolution.

This extensive market intelligence report examines the quantum computing landscape across multiple dimensions, analyzing hardware technologies including superconducting qubits, trapped ion systems, silicon spin qubits, photonic quantum computers, neutral atom platforms, topological qubits, and quantum annealers. The report provides detailed market forecasts extending to 2046, covering revenue projections, installed base growth, pricing trends, and technology adoption patterns across global markets. With quantum computing transitioning from research laboratories to commercial applications, this analysis identifies key inflection points, market opportunities, and strategic

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positioning requirements for market participants. The report thoroughly examines the quantum software ecosystem, including development platforms, quantum algorithms, machine learning applications, optimization solutions, and cryptography implementations. Critical infrastructure requirements, including cryogenic systems, control electronics, and quantum-classical hybrid architectures, receive comprehensive coverage. Regional market dynamics, government initiatives, and national quantum strategies are analyzed across North America, Europe, Asia-Pacific, and emerging markets, providing global perspective on quantum computing development.

Report contents include:

Comprehensive quantum computing market sizing and forecasts (2026-2046) with detailed revenue projections by technology, application, and geography

Installed base forecasting by quantum technology platform including superconducting, trapped ion, silicon spin, photonic, neutral atom, and topological systems

Pricing analysis and trends across different quantum computing system categories and deployment models

Hardware revenue forecasting by technology platform and system type with detailed market segmentation

Data center deployment analysis comparing quantum computer adoption to global data center infrastructure growth

Technology Landscape and Competitive Intelligence:

Deep-dive analysis of quantum hardware technologies including technical specifications, performance benchmarks, and commercial readiness levels

Comprehensive market player profiles across hardware, software, applications, and infrastructure segments

Quantum software stack analysis covering development platforms, algorithms, applications, and cloud services

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- Infrastructure requirements assessment including cryogenic systems, control electronics, and specialized components
- Materials analysis for quantum computing including superconductors, photonics, and nanomaterials

Industry Applications and Use Cases:

- Sector-specific quantum computing applications in pharmaceuticals, chemicals, transportation, financial services, and automotive industries
- Market opportunity assessment across drug discovery, molecular simulation, optimization, cryptography, and artificial intelligence
- Crossover technologies including quantum communications, quantum sensing, and quantum-AI convergence
- Commercial applications analysis with total addressable market (TAM) calculations for key vertical markets
- Case studies and implementation roadmaps for enterprise quantum adoption

Investment Landscape and Strategic Analysis:

- Detailed funding analysis covering venture capital, corporate investment, government funding, and M&A activity (2024-2025)
- Strategic partnership analysis and business model evolution in the quantum ecosystem
- Government initiatives and national quantum strategies with funding commitments and policy implications
- Investment trends analysis including geographic distribution, sector focus, and funding stage dynamics
- Market challenges assessment including technical barriers, commercialization hurdles, and adoption constraints

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Future Outlook:

SWOT analysis for quantum computing market development with strategic recommendations

Commercial readiness roadmaps by technology platform with timeline projections to 2046

Quantum computing value chain analysis identifying key stakeholders and value capture opportunities

Risk assessment and mitigation strategies for quantum technology investment and adoption

Emerging trends analysis including quantum-AI convergence, hybrid computing architectures, and next-generation applications

This comprehensive report features detailed profiles of 217 companies shaping the quantum computing ecosystem, providing essential intelligence on market leaders, emerging players, and innovative startups across the quantum value chain. The profiled companies include A* Quantum, AbaQus, Aegiq, Agnostiq, Algorithmiq Oy, Airbus, Alpine Quantum Technologies GmbH (AQT), Alice&Bob, Aliro Quantum, Anyon Systems Inc., Archer Materials, Arclight Quantum, Arctic Instruments, ARQUE Systems GmbH, Atlantic Quantum, Atom Computing, Atom Quantum Labs, Atos Quantum, Baidu Inc., BEIT, Bifrost Electronics, Bleximo, BlueFors, BlueQubit, Bohr Quantum Technology, BosonQ Ps, C12 Quantum Electronics, Cambridge Quantum Computing (CQC), CAS Cold Atom, CEW Systems Canada Inc., ColibriTD, Classiq Technologies, Commutator Studios GmbH, Crystal Quantum Computing, D-Wave Systems, Diatope GmbH, Dirac, Diraq, Delft Circuits, Duality Quantum Photonics, EeroQ, eleQtron, Elyah, Entropica Labs, Ephos, Equal1, EvolutionQ, First Quantum Inc., Fujitsu, Good Chemistry, Google Quantum AI, Groove Quantum, g2-Zero, Haiqu, Hefei Wanzheng Quantum Technology Co. Ltd., High Q Technologies Inc., Horizon Quantum Computing, HQS Quantum Simulations, HRL, Huayi Quantum, IBM, Iceberg Quantum, Icosa Computing, ID Quantique, InfinityQ, Infineon Technologies AG, Infleqtion, Intel, IonQ, IQM Quantum Computers, JiJ, JoS QUANTUM GmbH, KETS Quantum Security, Kipu Quantum, Kiutra GmbH, Kuano Limited, Kvantify, Ligentec, LQUOM, Lux Quanta, Maybell Quantum Industries, Menlo Systems GmbH, Menten AI, Microsoft, Miraex,

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Molecular Quantum Solutions, Montana Instruments, Multiverse Computing, Nanofiber Quantum Technologies, NEC Corporation, Next Generation Quantum, neQxt GmbH, Nomad Atomics, Nord Quantique, Nordic Quantum Computing Group AS, Norma, NTT, Nu Quantum, 1Qbit, ORCA Computing, Orange Quantum Systems, Origin Quantum Computing Technology, Oxford Ionics, Oxford Quantum Circuits (OQC), ParityQC, Pasqal, Peptone, Phasecraft, Photonic Inc., Pixel Photonics, Planqc GmbH, Polaris Quantum Biotech (POLARISqb), Post Quantum, PQShield, ProteinQure, PsiQuantum, Q* Bird, QBoson, Qblox, qBraid, Q-CTRL, QC Design, QC Ware, QC82, QEDMA, Qilimanjaro Quantum Tech, Qindom, QMware, QMill, Qnami, QNu Labs, Qolab, QPerfect and more.....

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