

Commercial quantum computing to come to fruition over the next decade as investment continues to pour in, says Heligan

The UK is leading the way in investment as quantum technologies continue to advance.

[Billions of Dollars, Pounds, Euros and Yen](#) are being poured into the development and productisation of Quantum Computing, with China hosting estimated funding of £13,3bn, Europe at 7.2bn, the US at £2.1bn, Japan at £1.8 bn, and the UK at £1.3 bn in 2022.

With a significant proportion of that overall funding being pumped into the UK, in 2022, British Quantum Computing start-up Universal Quantum was awarded at the time the largest government contract for Quantum Computing. Worth [£67m](#), the deal sees the company create quantum chips for scalable Quantum Computers for the German Aerospace Centre in Hamburg. This was only recently surpassed by the £496m contract awarded by the Australian Government to PsiQuantum towards the end of 2024.

Quantum Computers rely on a phenomenon known as quantum mechanics, using qubits (quantum bits) to process and relay information. Qubits, which can take simultaneously different forms, allow Quantum Computers to make simultaneous computations that classical computers and supercomputers can't. This will revolutionise fields such as medical research, financial services, and machine learning, which all have processes which require the analysis of huge datasets.

[£1.2bn](#) was invested in quantum technology in 2024, with a further \$40bn committed by governments over the next decade to support developments. Leading into 2025, some of Europe's top quantum startups saw increased investment, including Quantinuum, with £617 million, Alice & Bob, with £150 million, Pascal with £140 million and Riverlane, with £131 million.

Will Ashford-Brown, Director of Strategic Insights at Heligan Group, said, "every day we inch closer to realising commercial quantum usage for real applications. Size, cooling, price, speed, and impact are all part of the long tail of improvements, but it would seem we are at the point where commercial application, investment and opportunity are knocking at the door.

“The market for Quantum Computing is predicted to grow from [£412m in 2020 to £8.6bn in 2027](#), but this feels instinctively like an under-estimation. Today’s limited offerings will soon be replaced by a new generation of Quantum Computing platforms, triggering a surge in customer demand.

“Presently, the market has been mostly limited to national research laboratories and supercomputing labs. But commercial adoption is getting started, beginning with the tech giants”, added Ashford-Brown. “Microsoft, Amazon, Google and IBM have all partnered with Quantum Computing startups to provide quantum-based cloud services or are developing their own machines.”

“By the end of 2025, IBM, for example, aims to have built its own Quantum Computer with 1,000 qubits, the point at which Quantum Computers are expected to challenge the performance of classical counterparts, whilst Google plans to have one by 2029.

“As we reach the end of this decade, it looks as though we really will have powerful Quantum Computers that are outstripping the best supercomputers we have today, but then again, this may be optimistic, and it could all still be another decade away.”, concluded Ashford-Brown.

-ENDS-

Notes to editors

About Heligan Group

Heligan Group is an intelligence led investment and advisory group specialising in partnering with businesses that contribute to global safety and security. With a growing presence across various geographies, Heligan Group stands as a leader in its field, combining expertise with innovation.

Media Contacts

Benjamin Hart / Rebecca Moreland

Spreckley

Tel: [+44 \(0\)207 388 9988](tel:+44(0)2073889988)

Email: Heligan@spreckley.co.uk

