

Diraq Opens New Commercial Laboratory in Sydney to Propel Era of Fault Tolerant Quantum Computing

Australian Minister for Industry and Science and other dignitaries join Diraq's lab opening in recognition of nation's growing leadership in quantum computing

SYDNEY, AUSTRALIA, February 21, 2024 /EINPresswire.com/ -- [Diraq](#), a global leader in quantum computing using silicon 'quantum dot' technology, today announced the official opening of its new state-of-the-art commercial quantum computing laboratory located on the campus of UNSW in Sydney, Australia.

Equipped with cutting-edge technology and a team of talented scientists and engineers, the lab is a critical step in realising Diraq's plans to leverage today's semiconductor manufacturing infrastructure to produce silicon chips with billions of qubits – the fundamental computational units of quantum computing.

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*Dr. Cathy Foley, Australia's
Chief Scientist*



Dr. Cathy Foley, Australia's Chief Scientist, and The Hon. Ed Husic MP, Australian Minister for Industry & Science, join Diraq founder and CEO Andrew Dzuras (right) at opening of company's commercial lab.

Diraq's new lab is 200 square meters and provides a low-vibration and interruption-free environment for quantum measurements. The lab contains state-of-the-art equipment for the cryogenic testing and precision measurement of silicon quantum devices, with feature sets that are less than the width of a thousandth of a single human hair.

The Hon. Ed Husic MP, Minister for Industry & Science, joined a number of other dignitaries speaking at the official lab opening event, including The Hon. Matt

Thistlethwaite MP, Assistant Minister for Defence, Assistant Minister for Veterans' Affairs, and Assistant Minister for the Republic; Cathy Foley, Ph.D., Australia's Chief Scientist; Attila Brungs, Vice-Chancellor & President of UNSW, Sydney; Christophe Jurczak, Ph.D., Founder and Managing Partner of Quantonation, [Diraq's latest private investor](#); and Dirac's U.S.-based Chair, The Hon. William (Bill) Jeffrey, Ph.D. Dozens of other officials from venture capital firms, quantum companies, academia and government were also in attendance.

"Quantum computers are now moving closer to the assembly line - they're a major disruptor on an accelerated path to delivery," said Dr. Foley. "Companies like Dirac are putting Australia in the top tier of countries to capitalise on this. Andrew Dzurak's quantum dot technology really is world-leading research."

"Quantonation is delighted to have recently led Dirac's recent Series A-2 funding round," said Jurczak. "We chose to invest in Dirac as we see their technology -- spins-in-silicon -- as the fastest route to realising fault-tolerant quantum computing capable of delivering quantum's transformative potential on a commercial scale."

"We are grateful for the overwhelming support from our partners and well-wishers in this major step forward for our company, as well as for their continuing dedication to a thriving quantum computing ecosystem," said Andrew Dzurak, CEO and founder of Dirac.

"While other quantum computing approaches involve building large, expensive systems, Dirac is focused on developing small, highly integrated silicon chips that can hold many millions and ultimately billions of qubits on a single chip," said Dzurak. "Dirac's advantage is the ability for our technology to be fabricated using the same semiconductor processes used to make the chips in modern electronics."

"With the launch of our new lab and bolstered by recent funding, Dirac is poised to transition seamlessly from prototype development to producing chips through a standard semiconductor foundry," said Dzurak. "This strategic advancement positions us at the forefront of the quantum computing landscape in order to realise the full economic and commercial potential of quantum computing."

In addition to funding from private partners, Dirac has secured grants from the U.S. Army Research Office, as well as Australian Government grants including the CRC-P and QCCF. Total funding of Dirac's technology is USD \$135 million.

To learn more about Dirac and its quantum computing technology, visit diraq.com, or follow Dirac on LinkedIn, YouTube, and Twitter.

About Dirac

Dirac is a global leader in building quantum processors using silicon 'quantum dot' technology, leveraging proprietary technology developed over 20 years of research and with over US \$135

million in funding across 11 patent families. Its approach relies on the existing silicon manufacturing processes used by foundries to produce today's semiconductor components, known as CMOS, forging a faster and cheaper road to market. Diraq's goal is to revolutionize quantum computing by driving qubit numbers on a single chip to the many millions, and ultimately billions needed for useful commercial applications.

By capitalizing on existing chip fabrication technology and the ability to manufacture qubits at scale within current semiconductor facilities, Diraq is accelerating the change that can transform computing as we know it today. Its platform architecture is purpose built to drive the significant processing advances required to reduce cost and energy barriers, and to realize quantum computing's full societal and economic potential.

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