Archer Materials
Technology

ASX Announcement (ASX: **AXE**) 14 September 2026

Archer launches Quantum Commercial Pilot; strengthens its customer pipeline development with partner IonQ

Highlights

- Launches a national Quantum Commercial Pilot, enabling Australian organisations to test commercially significant computational problems on IonQ Forte Enterprise quantum hardware.
- Selected projects will progress through classical benchmarking, quantum simulation and testing on IonQ hardware, creating a pipeline of potential commercial quantum applications and customers in Australia.
- Archer to attend Quantum World Congress 2026 as part of the Australian Government's Austrade delegation.
- Archer and CSIRO will progress their quantum machine learning fraud detection program from simulation to testing on IonQ quantum hardware, with results intended to support benchmarking against classical approaches and peer-reviewed publication.
- Archer will advance commercialisation discussions with IonQ across priority sectors including financial services, defence and advanced industry, alongside continued development of Archer's semiconductor-based quantum technology.

Archer Materials (ASX: AXE), Australia's only listed pure-play quantum technology company, is strengthening its strategic partnership with IonQ (NYSE: IONQ) and its customer pipeline development, with the launch of a national Quantum Commercial Pilot. This will give Archer's customers direct access to the most powerful quantum hardware available to help solve complex real-world challenges spanning logistics, defence, healthcare and pharmaceutics, beyond the reach of classical computational platforms.

Archer has been selected to attend the preeminent industry conference, Quantum World Congress 2026 in Maryland USA, as part of the Australian Government's Austrade delegation; and continues to advance its quantum machine learning fraud detection program with the CSIRO toward peer-reviewed publication.

Dr Simon Ruffell, CEO, Archer Materials said, "Following our collaboration with IonQ, our focus is increasingly on developing our customer pipeline and industry engagement for commercialisation. The Quantum Commercial Pilot is designed to bring Australia's most significant computational problems to quantum hardware; to benchmark, stress-test, and identify where quantum methods offer a measurable advantage over classical approaches.

"The IonQ partnership gives Archer and our Australian enterprise customers direct access to the world's leading quantum hardware and expert quantum algorithm engineering teams to help solve multi-billion-dollar problems right across our national economy. IonQ has built a global commercial pipeline across defence, financial services and advanced industry. We look forward to deepening this relationship and translating it into an Australian pipeline of validated quantum applications and paying customers."

"We are also taking the work we have been developing with CSIRO and running it on a commercial IonQ quantum computing platform, which will allow for more advanced testing and optimisation."

"Quantum computation will solve high-value problems classical computers cannot, designing new materials, accelerating drug discovery, optimising logistics at global scale, and unlocking the next generation of AI capabilities. Australia is lagging international peers in quantum readiness and early adoption. Archer is positioning its quantum expertise in the market to accelerate our national readiness and strengthen Australia's economic and strategic advantage."

Archer launches first-of-its-kind Quantum Commercial Pilot & Industry Workshops

Archer has opened a Quantum Commercial Pilot, inviting Australian organisations to submit high-value computational problems for evaluation on the quantum computing hardware of its strategic partner, IonQ.

Target problems are those that are impractical for classical compute to solve due to length of processing time or complexity in domains including simulations, cryptography and security, and optimisation. Selected participants will be provided complimentary compute time on IonQ Forte Enterprise at no cost to them, providing Archer with a growing pipeline of problem validation and valuable customer intelligence.

Selected projects will follow a structured three-stage process:

1. define the commercial problem and the classical computation benchmark;
2. validate the approach using quantum simulation, supported by Archer and IonQ's expert quantum engineering teams; and
3. execute the problem for testing on IonQ quantum computing hardware.

Applications close 15 October 2026 and are open to industry, government, universities, startups and cross-sector consortia.

The pilot is intended to identify organisations with commercially significant computational requirements and to establish a pipeline of potential customers and applications in Australia. Whether any pilot project leads to a commercial arrangement will depend on the results obtained, and Archer will update the market on any material developments.

In parallel to the commercial pilot, Archer and Australia's national research corporation, the CSIRO, are delivering a series of industry workshops to further identify and qualify high-value industrial problems in key focus areas for quantum computing and quantum machine learning (QML). The first workshop is targeting the Australian financial services sector, bringing together problem owners and quantum specialists to assess computational challenges and define proof-of-concept projects.

Projects identified through the workshops may subsequently be evaluated through simulation and classical benchmarking before progressing, where appropriate, to quantum hardware development and commercial pilots.

Quantum World Congress 2026 and IonQ Strategic Partnership Meetings

Archer CEO Dr Simon Ruffell and Executive Chair Greg English will attend Quantum World Congress 2026, as part of the Australian Trade and Investment Commission's (Austrade) trade delegation, joining Australian quantum leaders Silicon Quantum Computing, Quantum Brilliance, and others.

While at the Congress, Archer will meet with its strategic partner IonQ Inc (NYSE:IONQ)'s technical, commercial and applications teams for strategic discussions on four priority areas: customer development and commercialisation and expanding the Australian commercial pipeline through joint customer engagement, quantum algorithms and applications; defence opportunities; and quantum for

financial services, including IonQ's existing bank and institutional deployments and their applicability to Australian markets.

The visit is an opportunity to accelerate the commercial scope beyond the provision of access to quantum computing hardware alone and to develop commercial services, applications and customer relationships around the technology, drawing on IonQ's international experience and Archer's engagement with the Australian market.

CSIRO fraud detection algorithm to run on IonQ quantum hardware

Archer and CSIRO have been developing a quantum machine learning algorithm targeting financial fraud detection.

Following Archer's collaboration with IonQ, the next phase of the project will involve executing the fraud detection algorithm on IonQ quantum computing hardware and further optimisation of the machine learning algorithm. This is an important progression from algorithm development to testing on a commercial quantum computing platform.

Archer expects access to IonQ's hardware to improve the commercial relevance of the program's results and to enable more meaningful benchmarking against classical computational approaches. The results are intended to support Archer's ongoing engagement with the Australian financial services sector, including the planned workshop referred to above.

Archer and CSIRO are also preparing a technical paper detailing the work completed to date for peer-reviewed publication.

Archer continues to advance its semiconductor-based quantum technology alongside its commercial quantum computing activities with IonQ. Archer will update the market on the progress of that development program in accordance with its continuous disclosure obligations.

The combination of Archer's own quantum technology development, access to IonQ's quantum computing platforms and direct engagement with prospective Australian customers forms the foundation of Archer's strategy to participate across the developing Australian quantum computing ecosystem.

The Board of Archer authorised this announcement to be given to ASX.

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About Archer

Archer is a quantum technology company that operates within the semiconductor industry. The Company is developing advanced semiconductor devices, including chips relevant to quantum computing, sensing, and medical diagnostics. Archer utilises its global partnerships to develop these technologies for potential deployment and use across multiple industries. www.archerx.com.au