

## Archer CEO to Present at Upcoming Investor and Semiconductor Conferences

### Highlights

- Archer Materials Limited Chief Executive Officer Dr Simon Ruffell will present at the 15th Annual Australian Microcap Investment Conference in Melbourne on Tuesday, 20 October 2026.
- Dr Ruffell will also present at Semiconductor Australia 2026 in Sydney on Thursday, 22 October 2026.

Archer Materials Limited (**ASX: AXE**) advises that Chief Executive Officer Dr Simon Ruffell will present at the following upcoming conferences:

#### 15th Annual Australian Microcap Investment Conference

- **Date:** Tuesday, 20 October 2026
- **Time:** 12:15pm (AEDT)
- **Location:** Melbourne, Australia
- **Conference information:** <https://www.microcapconferences.com/event/15AMIC/summary>

#### Semiconductor Australia 2026

- **Date:** Thursday, 22 October 2026
- **Time:** 11:00am (AEDT)
- **Location:** ILUMINA, Sydney
- **Conference information:** <https://www.semiconductoraustralia.com/info>

The Company's updated Investor Presentation is enclosed with this announcement.

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](http://www.archerx.com.au)

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# Archer Materials Limited

ASX: AXE

Simon Ruffell  
Chief Executive Officer

Australian Microcap Investment Conference

October 2026

# Australia's only listed pure-play quantum company



## Strategic partnership with IonQ

Bringing the world's leading compute power, IonQ Forte computing to Australia



## Deep technical expertise

In-house quantum hardware, software and applications team.



## Quantum Software

Quantum machine learning & applications IP



## Strategic IP

40+ patents filed globally across quantum and sensing, plus a growing quantum-algorithm IP base.



## Quantum Hardware

Carbon-based qubit & sensing technology



## Australian operating base

ASX-listed (ASX: AXE), Australian-incorporated; operations in Sydney and Adelaide (Lot Fourteen).

# Our portfolio

Complementary technologies built on a common materials foundation to solve complex quantum problems



## IonQ Quantum Compute Power

**Near-term revenue. World-class capability.**

- Strategic partnership with global leader IonQ.
- Provides direct access to IonQ Forte Enterprise, the most powerful commercially available quantum compute power.
- Quantum Commercial Pilot to convert access into commercial pipeline development.



## Quantum Software & Hardware

### Quantum Software & PQC Readiness

- Archer–CSIRO QML program for financial services
- Moving from simulation to IonQ hardware
- Quantum-advantage benchmarks vs classical methods

### Graphene Based Quantum Hardware

- Developing graphene qubit chips for next-gen ruggedised and manufacturable quantum devices

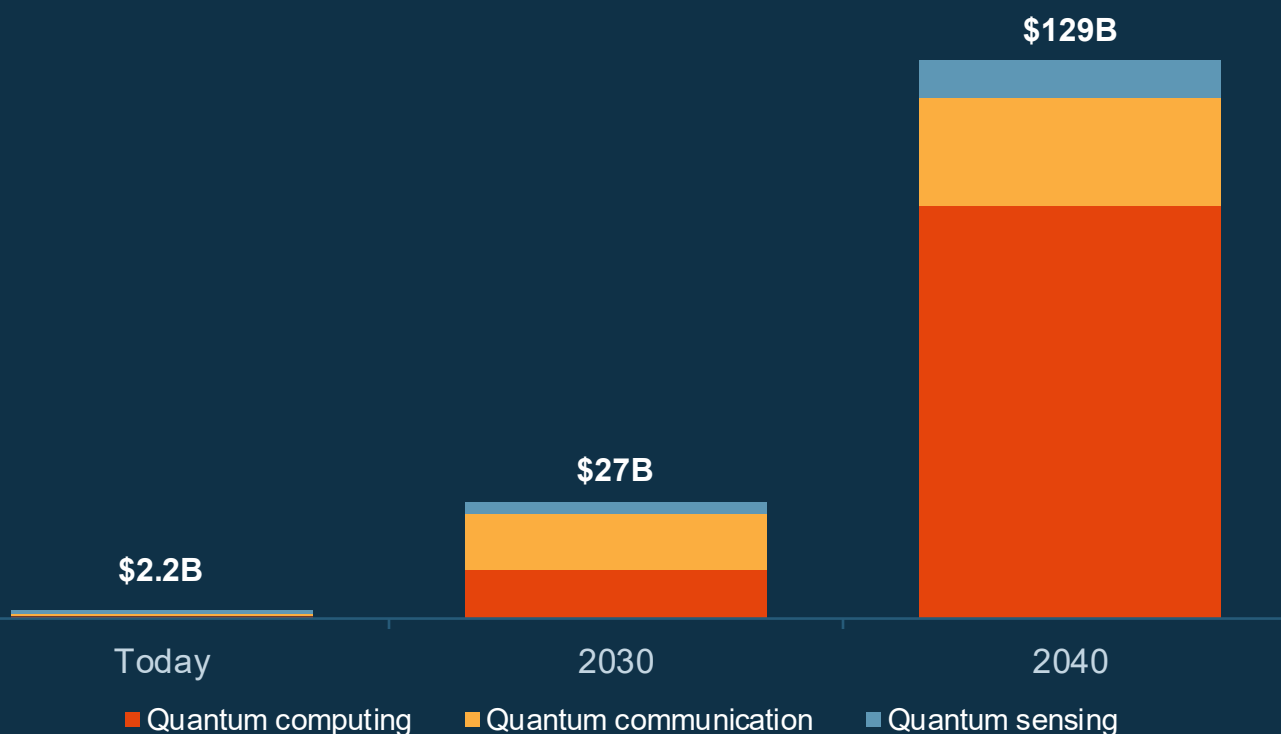


## Biochip Platform

**Medical diagnostics platform for global markets.**

- Miniaturised chip-based biosensor bringing clinical-grade diagnostics to the point of care.
- Developed with IMEC, the biochip enables fast, accurate, and low-cost digital testing.
- Opens new applications in medical health.
- A standalone commercial asset with near-term clinical trials and licensing potential.

# Quantum is moving from research to a multi-billion-dollar market



~\$129B

in annual revenue for quantum technology providers at maturity (2040)

Total market grows from ~\$2B today to \$27B by 2030 and \$129B by 2040, led by quantum computing.

Source: BCG analysis (total quantum technology market by segment, US\$B). Quantum computing assumes 20% technology-provider share of value created.

# IonQ Strategic Partnership

World leading compute  
power

ARCHER

# Partnering with the world's leading quantum platform company



**~US\$21B**

Market cap (NYSE: IONQ)

**US\$3.3B**

Cash & investments

**US\$130M**

FY25 revenue (+202%)

**US\$260–270M**

FY26 revenue guidance

**1,300+**

Staff across 30+ countries

**99.99%**

Two-qubit gate fidelity (record)

- ✓ Full-stack quantum platform: computing, networking, sensing & security
- ✓ Trapped-ion architecture; datacentre-ready Forte and next-gen Tempo systems
- ✓ Technology roadmap toward 2 million qubits by 2030
- ✓ Customers and partners include AWS, AstraZeneca and NVIDIA
- ✓ Selected for the US DARPA HARQ program in modular quantum computing

Sources: IonQ SEC filings and company announcements (FY2025 results, Q1 2026); figures as reported. Market capitalisation as at June 2026.

# Bringing commercial quantum utility to Australia

## Phase 1: Build quantum use cases and develop customer pipeline

1



### Bring cloud Quantum Computing to Australia

Provide access to IonQ Forte- and Tempo-class systems alongside Archer know-how to Australian customers across various industries.

2



### Build proprietary products & IP

Develop quantum algorithms and applications for customers. Archer owns its inputs and results, creating defensible intellectual property.

## Phase 2: Strategic Objectives

3



### Onshore Quantum Computing capability

Use Archer's quantum R&D, software and partnerships to build a strong position to establish local systems.

4



### Build customers, applications & subscriptions

Implement commercial scale applications with customers. Build revenue pipeline as well provide sovereign capability to sectors like defence. Grow the computing ecosystem.

1–2 are enabled and underway under the signed agreement. 3–4 are strategic objectives — not yet contracted — that the partnership is designed to position Archer to pursue.

# Owned Quantum Software & Hardware

Quantum machine learning and  
applications IP

# Quantum machine learning, built for real-world value



Partnered with CSIRO to develop quantum machine learning (QML) models for fraud detection



Initial outputs: prototype QML models and performance benchmarks on simulated financial datasets



The QML framework applies to healthcare, defence & aerospace, cybersecurity



Builds defensible IP and the first steps of a customer application pipeline feeding the IonQ partnership



# How graphene qubits solve multiple barriers to quantum hardware

Quantum computers process information and solve problems that are prohibitive for classical computers— but face significant scale-up and manufacturing barriers. Archer is developing ruggedised next-generation graphene-based hardware designed to operate in real-world environments.



## Ruggedised operation for real-world environs

Graphene based quantum hardware will reduce the engineering challenges and overheads required for utility scale, real-world operation



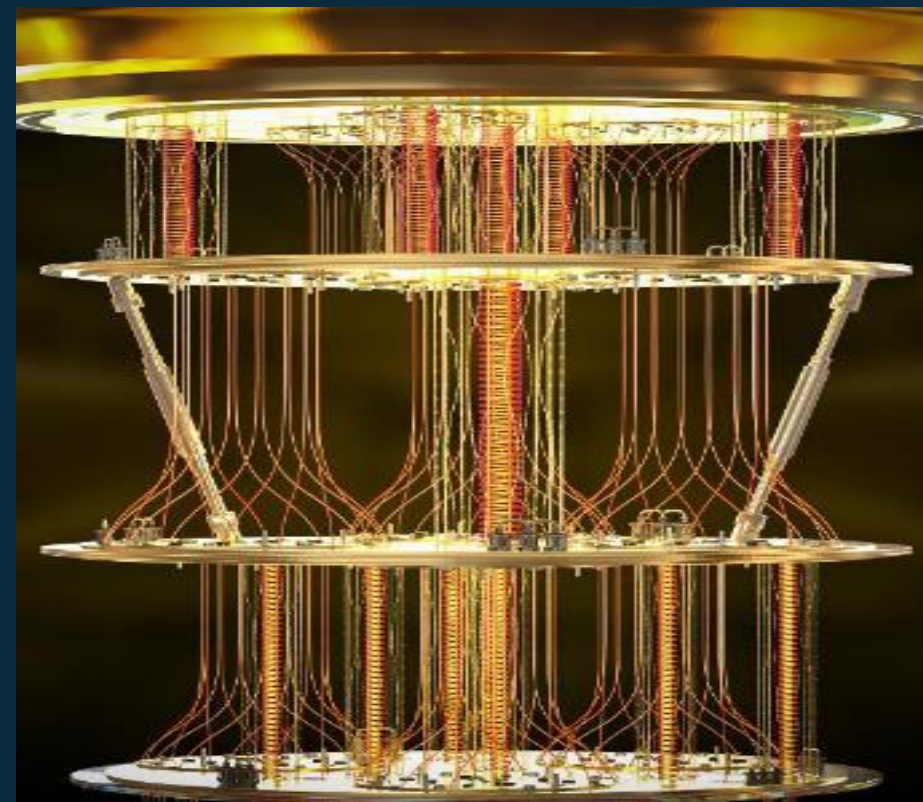
## Superior coherence times and stability

Graphene qubits offer extreme stability and control for reliable operation and future fault tolerance quantum hardware



## Designed for future scalable manufacturing

Manufacturing and scalability being designed from the development phase to integrate with today's semiconductor fabrication techniques



# Biochip Platform

Point-of-Care Medical Diagnostics  
platform for global markets

# One sensing chip, a platform across markets



Core sensing platform — chip-based ion detection, microfluidics & functionalization chemistry



## Lithium — Blood Diagnostics (IVD)

Bipolar disorder therapeutic drug monitoring — lead clinical application

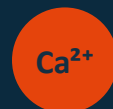
IN DEVELOPMENT



## Potassium — Blood Diagnostics (IVD)

Chronic kidney disease & heart failure monitoring — next clinical application

NEXT APPLICATION



## Calcium — Industrial Process Monitoring

Real-time sensing for dairy processing — a large adjacent market under investigation

EXPLORATORY



## Multi-Analyte Panels

Same chip architecture, multiple ion-selective chemistries in parallel — panels tailored to each market's workflow

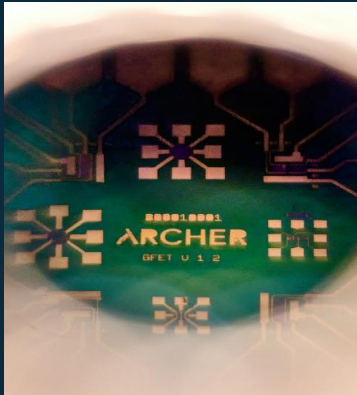
PLATFORM MECHANISM

Beyond potassium and lithium blood diagnostics, Archer is investigating other medical & industrial applications — and building toward multi-analyte panels on the same core architecture.

**One sensing architecture** — chip-based ion detection + microfluidics + readout electronics. Only the surface chemistry changes to unlock a new ion, a new market, or a new panel.

# The IP is in the chip and its chemistry – not the box around it

## CORE IP — PATENT-PROTECTED



- **Sensing chip**  
Proprietary silicon ion-sensing architecture and design
- **Functionalization layers**  
Proprietary surface chemistry and processing enabling accurate and rapid sensing
- **Manufacturing process steps**  
Proprietary fabrication & functionalization methods that make the chip reproducible at volume

*This is where Archer's patents and know-how sit — and why no prior point-of-care attempt has matched this accuracy and reliability.*

## LEVERAGING PROVEN COMPONENTS



Reader



Cartridge & fluidics

- Disposable microfluidic cartridges — mature, low-cost consumable manufacturing
- Fluidic handling — established microfluidics engineering and design patterns
- Electronic reader / readout hardware — standard embedded electronics and low-cost manufacturing

*Archer integrates its proprietary chip and readout techniques into components the diagnostics industry has already optimised for years — lowering cost and de-risking manufacturing.*

# A global network advancing Archer's technology



SWITZERLAND

EPFL

Quantum chip components



BELGIUM

imec

Biosensor manufacturability & integration



UNITED STATES

IonQ

Full stack quantum platform & merchant



UNITED KINGDOM

Paragraf

Potassium sensing accuracy & reliability



CANADA

HyliDx

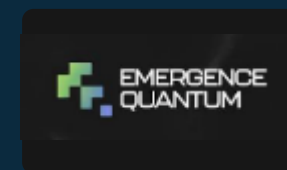
Biochip cartridge & CKD regulatory pathway



AUSTRALIA

CSIRO

Quantum machine learning



AUSTRALIA

Emergence  
Quantum

Quantum sensing integration

# Investment summary



## Sovereign quantum first-mover

Positioning to deliver Australia's first commercial sovereign quantum computing platform.



## Australia's only listed pure-play

The only pure-play quantum exposure on the ASX, with hardware and software platforms.



## Tier-one IonQ partnership

A multi-year agreement with the world's leading quantum platform company.



## Low-capex, high-margin model

Develops and prototypes in-house, then scales via foundry, partner and reseller models.



## Expanding IP portfolio

40+ patents filed globally, plus growing quantum-algorithm and applications IP.



## Deep technical leadership

A deep-tech team backed by a global network of scientific advisors and partners.

# Board & Management



**Greg English**  
Executive Chair



**Bernadette Harkin**  
Non-Executive Director



**Andrew Just**  
Non-Executive Director



**Dr Simon Ruffell**  
CEO



**Dr Andrew Sexton**  
Head of Engineering



**William Wang**  
Commercial Engagement  
Manager



**Clarissa Driver**  
Head of People &  
Operations



**Thank you**

Building Australia's quantum computing capability

**Archer Materials Limited**

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