

# Archer Materials Ltd

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## Archer Materials advances development of qubit chip technology and joins Sydney Knowledge Hub

Archer Materials Ltd (ASX:AXE) continues to progress the development of its 12CQ technology and is on-track performing quantum measurements required to build an operational room-temperature qubit processor (chip) prototype.

As part of this work, the company has joined the Sydney Knowledge Hub, a co-working space for research-based organisations that collaborate with the University of Sydney, to strategically engage with researchers in the Australian quantum computing economy.

A collaboration agreement with the University of NSW Sydney also now includes access to world-class infrastructure for quantum materials characterisation.

"Robust commercial agreements"

Archer chief executive officer Dr Mohammad Choucair, said: "We are strategically expanding Archer's direct access to infrastructure, specialised measurement instruments and internationally recognised researchers to accelerate performing the quantum measurements required to successfully develop the 12CQ chip.

"We have secured important and significant access to specialist equipment and world-renowned personnel through robust commercial agreements with world-class institutes.

"As a result, the quantum measurements related to qubit control, which form the basis of the chip's basic function, have commenced and are on track."

Archer is one of very few companies globally that provides investors with a direct, on-market opportunity to invest in quantum computing technology and holds an exclusive international licence to patents protecting the chip technology.

Use of carbon-based qubit material

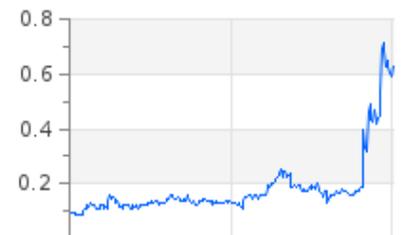
The company's unique use of a carbon-based qubit material has the potential to enable chip operation at room-temperature.

This would overcome the limitations of low operating temperatures and electronic device integration for qubits and would represent a breakthrough solution to the widespread use and ownership of quantum computing-powered technology.

**Price:** 0.625

**Market Cap:** \$133.34 m

### 1 Year Share Price Graph



June 2019 December 2019 June 2020

### Share Information

**Code:** AXE

**Listing:** ASX

**52 week High Low**  
0.815 0.079

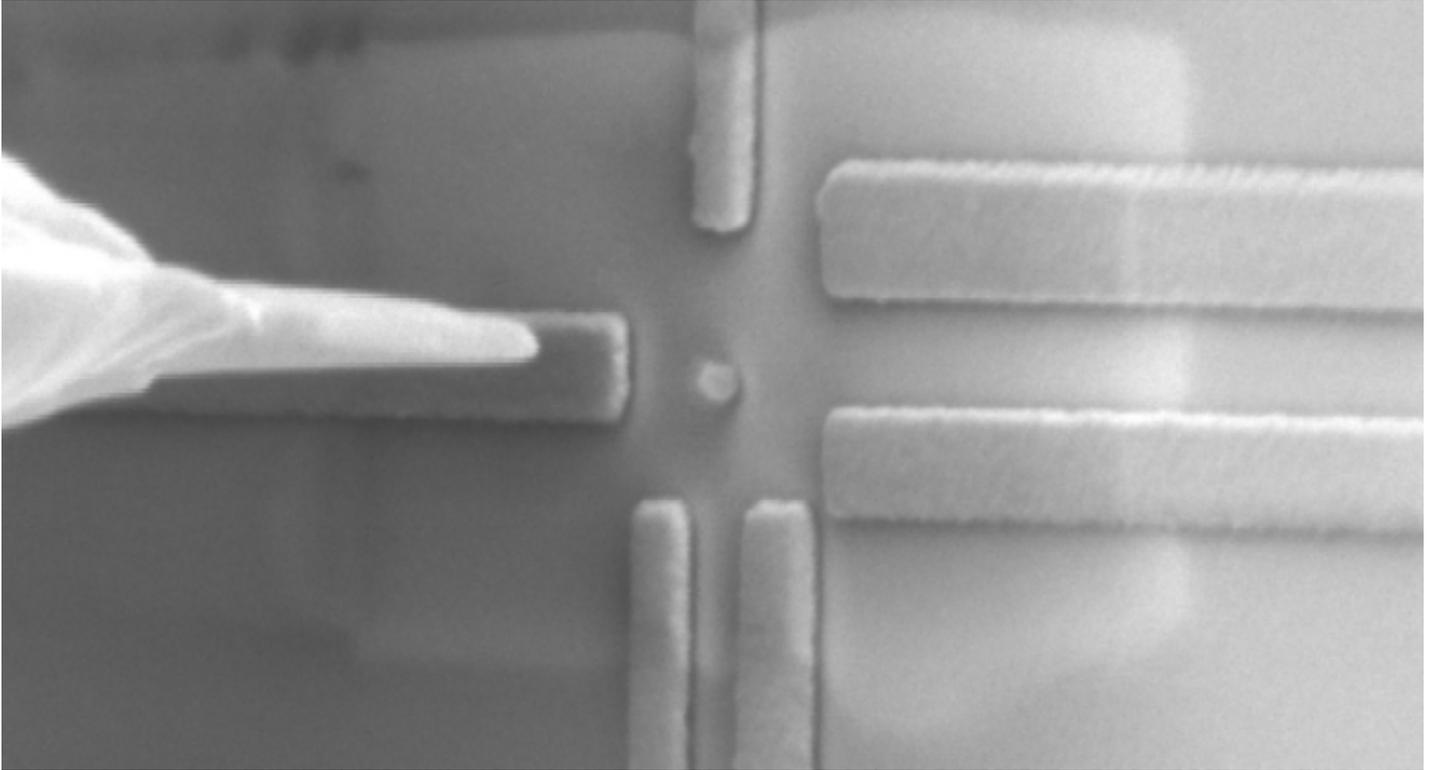
**Sector:** Hardware & electrical equipment

**Website:** archerx.com.au

### Company Synopsis:

Archer Materials Ltd (ASX:AXE) is a materials technology company developing and integrating materials in quantum computing, biotech and Li-ion batteries.

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A single qubit component undergoing direct quantum measurements related to the materials' electronic characteristics.

#### Sydney knowledge hub

Archer is performing various quantum measurements on the chip qubit components at the University of Sydney and École Polytechnique Fédérale de Lausanne in Switzerland, and will now expand to conduct specialised, state-of-the-art quantum measurements at the University of NSW.

The quantum measurements focus on several complementary approaches to achieve quantum electronic and magnetic control of the chip qubit components in-line with Archer's key commercial development goals to demonstrate the potential for chip function and integration in modern devices.

While the collaboration agreements include access to equipment, laboratories and staff, the institutions themselves are not involved in developing the 12CQ chip.

#### Next steps

The outcomes of the quantum measurements will be used to validate the patents protecting the chip technology, strengthen and grow Archer's intellectual property, and to advance the commercial readiness of the chip.

Key measurements will be released to ASX and discussed and reviewed under confidentiality with delegates at the Quantum.Tech Conference in London from April 20-22, 2020, where Archer will be attending to chair a session on quantum computing.

Archer intends to commercialise chip products through licensing and direct sales by seeking to establish commercial partnerships with highly resourced organisations.

The company is one of very few globally that provides investors with a direct, on-market opportunity to invest in quantum computing technology, which investment bank Goldman Sachs predicts could become a US\$29 billion industry by 2021.

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