

ASX Announcement ([ASX: AXE](#))

26 April 2021

Archer expands access to institutional deep tech infrastructure

Highlights

- Archer strategically expands its access to institutional deep-tech infrastructure that overcomes commercial and technological barriers to biochip development[†].
- Access to world-class analytical facilities provides sub-10 nanometre quality control capabilities necessary to develop Archer's biochip.
- Precision nano-engineering of Archer's biochip semiconductor devices is a global competitive advantage in the multibillion-dollar MedTech industry[‡].

Archer Materials Limited ("Archer", the "Company", "[ASX:AXE](#)") is pleased to inform shareholders that the Company has expanded its commercial access to institutional deep tech infrastructure as part of its biochip development.

Archer is now directly accessing [world-class analytical facilities](#) with state-of-the-art, atom-scale quality control capabilities. The infrastructure access is necessary to carry out the Company's biochip development. Specifically, it allows Archer to qualify its semiconductor device production processes as the Company advances towards sub-10 nm biochip feature sizes ([ASX ann. 8 Apr 2021](#)).

Archer is strategically securing access to local institutional deep-tech infrastructure

The successful development of Archer's biochip requires the analysis of semiconductor device materials components and the establishment of quality control processes at the nanoscale (one nanometre being a billionth of a metre). This is because Archer's biochip technology integrates materials like graphene, which is one-atom 'thick' in size (i.e. a fraction of a nanometre), and device features that are nanometres in size ([ASX ann. 22 Mar 2021](#)).

There are very few instruments and facilities in the world today available to perform such sophisticated device and materials' analysis on precision-engineered nanoscale devices. Archer is now utilising an outstanding suite of institutional deep tech infrastructure resources to directly analyse its prototype biochips, which builds on the Company's access to a A\$150 million [research and prototype semiconductor foundry](#) where Archer fabricates its devices.

The specialist instruments and facilities that Archer newly accessed include multimillion-dollar advanced spectrometers for chemical and biological imaging at the nanoscale (Image 1), and protein production facilities in state-of-art laboratories. All of Archer's intellectual property rights and title to pre-existing materials are unaffected by its access to the infrastructure, facilities, and instrumentation outlined in this announcement.

[†] <https://www.chiefscientist.nsw.gov.au/independent-reports/australian-semiconductor-sector-study>

[‡] <https://www.bcg.com/en-au/industries/health-care/medical-devices-technology/managing-medtech-portfolios>

Commenting on Archer's access to deep tech infrastructure, Archer CEO Dr Mohammad Choucair said "We are very pleased to secure access to world-class facilities that would otherwise be extremely costly to purchase and operate ourselves. Archer's growth has involved integrating the Company's early-stage tech development within institutional scale operations, and this ultimately translates to maintaining a strong cash position and no corporate debt."

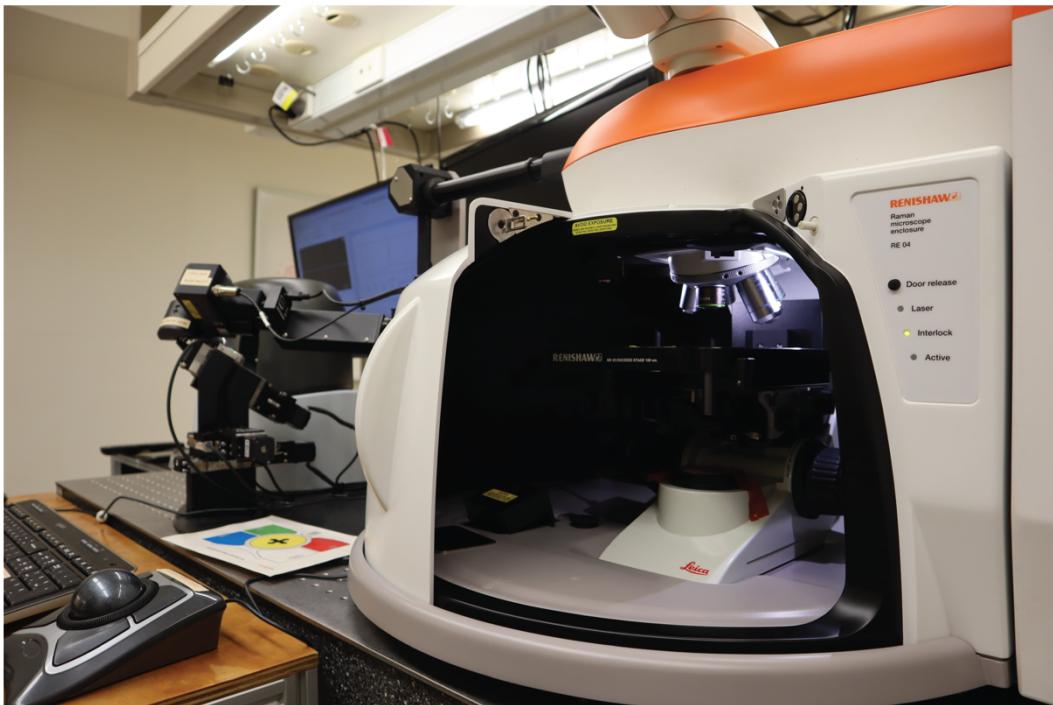


Image 1. One of many instruments housed in a specialised facility that Archer has recently secured access to in Sydney, Australia. The microscope system shown is an automated instrument Archer utilises for nanoscale analysis of the Company's biochip and other semiconductor devices.

About Archer

A materials technology company developing innovative deep tech in quantum computing, biotechnology, and reliable energy. The Company has strong IP, world-class in-house expertise, a unique materials inventory, and access to Tier 1 technology development infrastructure.

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

General Enquiries

Mr Greg English
Executive Chairman

Dr Mohammad Choucair
Chief Executive Officer
Tel: +61 8 8272 3288

Media Enquiries

Mr James Galvin
Communications Officer
Email: hello@archerx.com.au

For more information about Archer's activities, please visit our:

Website:

<https://archerx.com.au/>

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