



# Battery Technology Research and Innovation Hub



The Battery Technology Research and Innovation Hub (BatTRI-Hub) is a unique, world-class, purpose-built, research and innovation centre for battery design and development, encompassing research, pilot-scale manufacturing and the commercialisation of energy storage technologies.

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The collaboration between Deakin University research areas in energy materials and the leading expertise of the Institute for Frontier Materials (IFM) in key energy technologies and advanced polymer materials, creates the ideal platform for optimum design and operational flexibility.

Specialising in advanced battery design, fabrication and testing, BatTRI-Hub includes a pilot production line to manufacture advanced batteries and battery components, complementing pouch cell prototyping, a cell and pack testing lab, and advanced cell diagnostics, materials characterisation and failure analysis.

BatTRI-Hub seeks to advance existing technologies such as lithium-ion but also focus on sustainable alternatives such as sodium batteries.

The new facility builds on the BatTRI-Hub prototyping lab which has operated in Geelong since 2016 and has

demonstrated proof-of-concept pilot scale pouch cell production.

Working with industry, BatTRI-Hub will translate Australian battery technology from proof-of-concept, prototype to production-level energy-storage products. Partners include Toyota, AusNet Services and Calix Ltd among others.

#### The facility includes:

- **2,300m<sup>2</sup> engineering and office space, including a pilot production line to manufacture advanced batteries**
- **expanded research line for pouch cell prototyping**
- **lab space for state-of-art cell and pack testing.**



## BatTRI-Hub

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A dedicated, world-class battery technology research and translation facility

BatTRI-Hub offers the following services to industry:

- **advanced battery fabrication**
- **new battery designs**
- **battery prototyping**
- **material and component characterisation**
- **battery diagnostics and engineering support**
- **co-innovation and training spaces.**

Services and capabilities:

BatTRI-Hub has recently produced high-performance battery electrolyte and electrode materials, which has been one of the missing links for Australian battery production. Producing a next-generation battery in Australia from Australian-sourced, safer materials at half the current cost is now highly likely in the near future.

Professors Maria Forsyth and Patrick Howlett lead the innovative team of battery technology and electrochemical research experts at BatTRI-Hub.

Together with our partners, we are in discussions with potential manufacturers in Victoria to begin battery production in Australia within five years.



Alfred Deakin Professor  
Maria Forsyth

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Deakin University CRICOS Provider Code: 00113B

