

About Our CoE

The Centre of Excellence (CoE) – Battery Engineering at Atria University offers state-of-the-art infrastructure, expertise and technical support for research, development, cell fabrication and electrochemical testing of advanced battery materials and systems.



Advanced
Infrastructure
& Equipment



Skilled
Technical
Support



Collaborative
Research &
Development



Flexible Access
& Customised
Services



**Our Lab as a Service
(LaaS) model**

helps industries, startups
and researchers accelerate
innovation with our
expertise and facilities.

OUR FACILITIES

1. Material Synthesis Facilities



Hot Air Oven



Vacuum Oven



Split Tube Furnace



Muffle Furnace



Sonicator
(Bath & Probe)



Magnetic Stirrer



Ball Milling



Centrifuge



Fume Hood

- ✓ Material synthesis
- ✓ Material processing
- ✓ Nanomaterials & electrode materials
- ✓ Safe handling of chemicals

2. Electrode Fabrication Facilities



Doctor Blade



Crimping Machine



Disc Cutter

- ✓ Slurry preparation & coating
- ✓ Electrode cutting & shaping
- ✓ Electrode assembly support
- ✓ High precision fabrication

3. Cell Assembly Facilities



Glove Box (Argon Atmosphere)
(2 persons can work simultaneously)

- ✓ Moisture & oxygen free environment
- ✓ Cell assembly (coin & pouch)
- ✓ Electrode handling
- ✓ Safe and precise operation



Supports
wide range of
cell formats
(coin, pouch, etc.)

4. Battery Testing & Electrochemical Characterization



Battery Tester
(5V 100mA)
(36 Channels)



Battery Tester
(5V 6A)
(8 Channels)



Battery Tester
(5V 15A)
(8 Channels)
With temperature data
acquisition



Battery Tester
(5V 30A)
(8 Channels)
With temperature data
acquisition



Electrochemical
Working Station

- ✓ Charge-Discharge (GCD)
- ✓ Cyclic Voltammetry (CV)
- ✓ Electrochemical Impedance Spectroscopy (EIS)
- ✓ GITT / Other advanced techniques

Why Partner with Us?



State-of-the-art Infrastructure
Modern and well-maintained
facilities and instruments



Expert Technical Support
Skilled team with domain knowledge
and hands-on assistance



Flexible Collaboration Models
Project-based, contract research,
customized solutions



Cost-effective & Efficient
Access to high-end facilities
without large capital investment



Research to Industry Impact
From material development
to real-world applications



Let's Work Together
Accelerate your research and
innovation journey with our
expertise and facilities.

Your Ideas + Our Infrastructure =
Sustainable Solutions



**Watch Our CoE –
Battery Engineering Video**



[https://youtu.be/eK3O1LssvPE?
si=AZu-mA65LPPEVOA2](https://youtu.be/eK3O1LssvPE?si=AZu-mA65LPPEVOA2)



Certificate Courses
✓ Energy Storage Systems



Contact Us



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RESEARCH

INNOVATION

IMPACT

