

Solids Characterisation Lab



PerkinElmer STA 800

Thermal analysis (TGA/DSC up to 1600°C)



Hitachi TM4000Plus SEM

Coating-free SEM, nanoscale imaging, EDS



ZEISS EVO 15 SEM

High-resolution SEM,
multi-functional analysis



QUORUM Q150R ES Plus

Carbon/gold coater for SEM
sample preparation



Optical Microscope

High-resolution surface
imaging



Key Strengths & Capabilities

- Advanced material & microstructural analysis
- Battery & green energy materials characterisation
- Circular economy applications (recycled materials, secondary sources)



Applications

- Lithium ore & battery material phase analysis
- Spodumene/quartz microstructure observation
- Thermal stability of renewable energy materials
- Recycled battery materials in circular economy



Past Sponsors --- BHP, QNi, Rio Tinto, FBICRC, MRIWA, Livent, Neometal, AIS



Integration with WA Industry

- **Battery Supply Chain** – lithium ore calcination, quality control
- **Green Technology** – recycled materials, secondary sources
- **Education & Talent** – training platform for skilled professionals



Contacts

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