



UNSW
SYDNEY

Mark Wainwright Analytical Centre

We manage major instrumentation used to study the structure and composition of biological, chemical, and physical materials.

Biomanufacturing

- Protein production, purification and characterisation
- Process development
- Proteomics

Climate & Environment

- Anion analysis by ICP
- Chemical profiling
- Carbon-14

Construction & Built Environment

- ACP cladding
- Mineral quantification
- 3D imaging of concrete

Infrastructure, Transport & Utilities

- Trace metal contamination in fuel and lubricant samples

Life Sciences, Bioengineering & Healthcare

- Leachables analysis
- Topographical and compositional properties of materials

Materials & Manufacturing

- Contamination
- Carbon-13 of food

Mining & Resources

- Mineral phase quantification
- Element analysis
- Porosity and connectivity measurements

Space & Defence

- 3D imaging
- Surface analysis
- Mineral phase identification

We're open to both
UNSW researchers
and industry
partners.

Contact our
Commercial &
Consulting team to
discuss your project

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Nuclear Magnetic Resonance Facility

For the measurement of solutions, solids, soft matter, and electron magnetic resonance.

- **Industrial materials** – cements, geopolymers, recycled carbon
- **Agricultural** – biochars, nanocellulose, soil minerals & clays, pesticides, herbicides
- **Food analysis** – oils, wine, beer, flavour, beverages and honey
- **Pharmaceuticals** – pure actives, drug-polymer complexes, polymorphs, nutraceuticals, antioxidants
- **Cosmetics** – shampoo, deodorant
- **Medical devices** – bioactive ceramic polymers
- **Energy storage** – lithium & sodium batteries, reversible hydrogen storage, ionic flow in super capacitors
- **CO2 capture** – heat activated minerals



Accreditation No.: 20675 to test for compliance with ISO/IEC 17025

We offer a tailored solution to your problem.

Contact us to discuss your project.

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