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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Electron Microscope Unit

UNSW SYDNEY

Wide range of expertise in advanced electron microscopy.

Imaging and compositional analysis from millimeter to atomic scale for:

- advanced manufacturing
- defence
- engineering
- chemistry
- geology

Projects include:

- Fracture analysis of metal packaging for defence, aerospace, packaging, transport, 3D printing
- Corrosion identification in steel used in food & beverage packaging, electrical parts, wire shielding
- Nanoparticle analysis for catalysts, battery materials, air pollutants for applications in clean energy, battery materials and environmental contamination

We offer a tailored solution to your problem.

Discuss your project with our Industry Applications Scientist.

Dr Simon Hager

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