Australian Government | ANSTO

Australian Synchrotron

ANSTO's Australian Synchrotron produces powerful beams of light one million times brighter than the sun.

These beams of light are used at individual experimental facilities, known as beamlines, to examine the atomic and molecular detail of a wide range of materials from health and medical, food, environment, biotechnology, nanotechnology, energy, mining, agriculture, advanced materials and archaeological research.

The results are superior in terms of accuracy, quality, robustness and the level of detail that can be seen and collected much faster than with traditional laboratory tools.

Applications

- additive and chemical manufacturing
- biofortification and solid state analysis
- commercial process validation
- composite materials
- drug discovery
- energy extraction and conversion
- energy storage and transportation
- environmental monitoring
- health product and medical device development
- mineral processing
- resource exploration
- waste management and remediation

Beamlines

- Imaging and Medical Beamline (IMBL)
- X-ray Fluorescence Microscopy (XFM)
- Macromolecular and Micro Crystallography (MX1 and MX2)
- Terahertz/Far-Infrared (THz/Far-IR)
- Infra-red Microscopy (IRM)
- Soft X-ray Spectroscopy (SXR)
- Small and Wide Angle X-ray Scattering (SAXS/WAXS)
- X-ray Absorption Spectroscopy (XAS)
- Powder Diffraction (PD)

Access

Access by researchers to the Australian Synchrotron, under an expectation to publish results, is merit-based through a proposal program.

Paid access allowing for confidentiality and support to industry can be arranged through the Industry Engagement team.

Visit **www.ansto.gov.au/useraccess** for more information.

LOCATIONS
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SOCIAL

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