X-Ray Diffraction

The School of Chemistry has facilities for both single crystal and powder X-ray diffraction analysis.

Single crystal X-ray diffraction

The Bruker Smart 6000 CCD diffractometer is used to provide solid-state structure determinations from single crystal samples. It is equipped with an Oxford Cryosystems low temperature device for accurate structural characterization of materials and for samples that are unstable under ambient conditions.

Services we can offer

Single Crystal XRD: Data collection and structure determination

Contact

To discuss how we may be able to assist you please contact

Dr. Louise Male

Tel: 0121 414 7481
Email: **l.male@bham.ac.uk (mailto:l.male@bham.ac.uk)**

Powder X-ray diffraction

Powder X-ray diffraction facilities are part of the Science City, Advanced Materials 1 project "Creating and Characterising Next Generation Advanced Materials". We have six powder diffractometers including two Bruker D8 Advance, a Bruker D2 benchtop, Siemens D5000 and D5005 diffractometers and a Panalytical Empyrean. Together these instruments allow rapid, high resolution data to be obtained,

Contact

If you would like to discuss training to use our diffractometers or the collection of powder diffraction data, please contact either

Dr. Louise Male

Tel 0121 414 7481
Email: **l.male@bham.ac.uk (mailto:l.male@bham.ac.uk)**

or Dr Jackie Deans

Tel 0121-415-8731
Email: **j.k.deans@bham.ac.uk (mailto:j.k.deans@bham.ac.uk)**

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