X-Ray Diffraction

The X-Ray Diffraction facility is equipped with state-of-the-art diffractometers offering both single crystal and powder X-Ray diffraction.

Powder X-Ray Diffraction

- High resolution data for ambient temperature materials characterisation and advanced structure determination and refinement
- Variable temperature data (10k–1000k) with rapid collection times for time-resolved studies

Learn more

For more details on powder X-Ray analysis contact Dr J Hriljac on 0121 414 4458 or email: j.a.hriljac@bham.ac.uk

Single Crystal X-Ray Instruments

- Rapid data collection and structure determination
- Low temperature structural characterisation

Learn more

For more details on single crystal X-Ray analysis contact Dr B Kariuki on 0121 414 7481 or email: b.m.kariuki@bham.ac.uk

Contact us

The team in the centre have vast cumulative experience and expertise within the field of chemical and biochemical analysis providing the very highest quality of data to academics and students in both research and teaching.

With our excellent facilities and high level of expertise we are able to offer an efficient, quality service to commercial organisations, which can be adapted to meet individual needs and timescales.

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School of Chemistry

Centre for Chemical and Biochemical Analysis

High quality analytical services for the commercial sector.

UNIVERSITY OF BIRMINGHAM

Centre for Chemical and Biochemical Analysis

High quality data analysis

With over a hundred years of dedication to excellence in research and teaching, the School of Chemistry is one of the UK's leading chemistry departments. At its heart the Centre for Chemical and Biochemical Analysis offers an extensive range of high quality analytical facilities to the commercial sector. Our services enable small-medium sized enterprises to have access to state-of-the-art equipment and a high level of expertise at a reasonable cost across the following areas:

- Mass Spectrometry
- NMR
- Chromatography
- Elemental Analysis
- X-Ray Diffraction

Key contact for the facility:
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Mass Spectrometry

The Mass Spectrometry laboratory offers an extensive range of techniques and ionisation methods with a fast turn around of results.

- Electron Ionisation (EI) Chemical Ionisation (CI) and GC/MS
- LCMS, Electrospray (ES)/APCI
- Accurate Mass Measurement
- Liquid Secondary Ionisation Mass Spectrometry (LSIMS)
- Matrix Assisted Laser Desorption Ionisation (MALDI)

Learn more
For more details on Mass Spectrometry contact Peter Ashton on 0121 414 4430 or email: p.r.ashton@bham.ac.uk

NMR

The well equipped Nuclear Magnetic Resonance laboratories offer a fast, round the clock operation.

- Rapid turn around of routine ^{1}H, ^{13}C, ^{19}F and ^{31}P spectra run completely in automation
- More demanding multi-pulse experiments, including nOe work undertaken following discussion with our expert widely experienced staff
- Dynamic, variable temperature experiments in the range of −95°C to +110°C.
- Multinuclear NMR

Learn more
For more details on NMR contact Neil Spencer on 0121 414 4419/4421 or email: n.spencer@bham.ac.uk

Chromatography

The Chromatography laboratory within the centre has a wide range of analytical instrumentation and offers the following separation techniques:

- Gas Chromatography
- Analytical HPLC
- Semi Preparative HPLC
- Preparative HPLC

Learn more
For more details on separation techniques contact Graham Burns on 0121 414 7457 or email: g.d.burns@bham.ac.uk

Elemental Analysis

Elemental Analysis can be used to analyse for carbon, hydrogen, nitrogen and sulphur in a wide range of substrates.

- Organic compounds
- Pharmaceuticals
- Organometallics
- Petrochemicals
- Carbides and nitrides
- Polymers

Learn more
For more details on Elemental Analysis contact Lianne Hill on 0121 414 3606 or email: l.hill@bham.ac.uk