Medicinal and Analytical Chemistry Research Hub - Infrastructure

The University has completed a new building to centrally house laboratory infrastructure and equipment worth in excess of £40M. This enhanced infrastructure includes high-capital value facilities including modern synthetic chemistry laboratories and a fully-resourced analytical chemistry suite, which includes:

- High resolution 400 and 600 MHz NMR instruments
- Inductive Coupled Plasma Optical Emission Spectrometer (ICP-OES)
- Triple Quadropole Mass Spectrometer (LC-MS)
- Ultra High Performance Liquid Chromatography (UHPLC)
- High Performance Liquid Chromatography (HPLC with UV and Fluorescence detectors)
- GC-MS (with various configurations)
- Elemental Analyser
- UV-Vis and fluorescent spectrometers (including fibre-optic probes)
- Raman and Near InfraRed Spectrometers
- Capillary Electrophoresis
- ATR-FT-Infra red spectroscopy
- Automated solid phase peptide synthesizer

Computational chemistry facilities comprise a number of high performance computing servers and workstations with drug discovery software installed.

We have access to a range of facilities relevant to our projects that include BIODET facility for microbiological testing (headed by Richard N. Smith), cell, tissue and fermentation culture clean room facilities, and clinical simulation suite.