Our equipment.

Our extensive list of equipment which can be used by our skilled technicians includes:

SCANNING ELECTRON MICROSCOPY (SEM)
Used for the examination and analysis of micro- and nanoparticle imaging characterization of solid objects.

BENCH TOP NMR
An analytical tool which helps chemists and other scientists analyse a sample's molecular structure without destroying the sample.

AUGMENT REALITY EQUIPMENT
For real-time use of information in the form of text, graphics, audio and other virtual enhancements integrated with real-world objects.

VIRTUAL REALITY EQUIPMENT
For creating a computer-generated environment with scenes and objects that appear to be real, making the user feel they are immersed in their surroundings.

3D HANDHELD SCANNER
Contributing to the preservation of history, by collecting delicate objects and fossils in 3D digital form.

LASER MARKING SYSTEM
A permanent process that uses a beam of concentrated light to create a lasting mark on a surface.

SLM METAL PRINTER
A 3D printing technique, which utilises high power-density laser to fully melt and fuse metallic powders to produce near net-shape parts with near full density.

WILSON VH1150 HARDNESS TESTER
Evaluates material's properties, such as strength, ductility and wear resistance, and so helps you determine whether a material or material treatment is suitable for the purpose you require.

INSTRON TENSION AND COMPRESSION TESTING
Applies tensile force or compression to a material and measures the specimen's response to the stress.

FIBRE LASER CUTTING MACHINE
A metal cutting machines which offer unparalleled speed and accuracy.

INJECTION MOULDING MACHINE
In the process of injection moulding, a thermoplastic polymer is heated above its melting point. This melt is mechanically injected, or pressed, into a mould that mimics the ultimate shape of the product that will be produced.

ICP-OES
An analytical technique that is used to identify the atomic composition of a sample.

GC MS
An instrumental technique, comprising a gas chromatograph (GC) coupled to a mass spectrometer (MS), by which complex mixtures of chemicals may be separated, identified and quantified.

LC MS
An analytical technique used for separation, identification, and quantification of both unknown and known compounds as well as to elucidate the structure and chemical properties of different molecules.

DISCRETE ANALYSER
An automated chemical analyser in which the instrument performs tests on samples that are kept in discrete cuvettes.

CONFOCAL MICROSCOPE
A technique that uses lasers and fluorescence to create a three-dimensional image of a sample.

FLOW CYTOMETER
Used to detect and analyse the chemical and physical characteristics of cells or particles

fNIRS BRAINS SCANNING SYSTEM
A non-invasive brain imaging technique that measures blood oxygenation changes.

EYE TRACKER – EYE LINK 1000
Helps observe and measure eye movements, pupil dilation, point of gaze, and blinking to see where subjects of a study focus their visual attention.