



INVENT
Innovation Space

**REMARKABLE RESOURCES
FOR ACCESSIBLE INNOVATION**

ACCELERATE. INNOVATE. COLLABORATE.



aura-innovation.co.uk  

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WHATEVER YOUR
INNOVATION NEEDS,
INVENTX IS HERE TO
HELP TURN YOUR IDEAS
INTO REALITY...

FLEXIBLE FACILITIES

InventX is a flexible research and development facility with the latest cutting-edge equipment, and access to industry and academic expertise, providing your business the boost it needs to meet the future head-on.

RANGE OF CAPABILITIES

We have a range of capabilities from advanced manufacturing to advanced electronics that can help bring your concepts to life. So, whether you have an idea you want to accelerate, a prototype to develop, or you just want to work with experts to innovate, the InventX team can help.

AGILE IN EVERY SENSE

The way in which your business can interact with InventX is just as agile as our space, and every package we offer is bespoke to your specific needs. Here are some of the ways you can work and collaborate with InventX;

- **Commission our services** to be delivered by our in-house experts
- **Collaborate with us** to combine our capabilities to deliver innovative projects
- **Already have the relevant expertise?** Consider a **tenancy agreement** or membership pass giving you independent and flexible access to our facilities

TALK TO US ABOUT HOW WE
CAN SUPPORT YOUR PROJECT

▶ GET IN TOUCH



ADVANCED MANUFACTURING

Our suite of advanced manufacturing technologies and in-house expertise is here to ensure that you have all the tools and techniques at your disposal to support your product/process design and development needs.

We have the unique ability to be able to provide you with access to a wide variety of cutting-edge rapid prototyping technologies, teamed with the relevant industry insight and technical expertise needed to fully exploit the technologies to benefit your business.

We have the capability to support you right from initial conceptual design, through to full-scale production, and can work with you to add value to your business at any point throughout this journey with our advanced manufacturing expertise.

Advanced manufacturing is more agile, efficient, and sustainable than traditional techniques, making it ideally suited to rapid product/processes development, but also presenting opportunities for reduction in manufacturing costs, reduced time-to-market, increased part/process performance, and improved sustainability credentials.

SPECIALIST CAPABILITIES AVAILABLE :

RAPID PROTOTYPING

- Multi-material Polymer Extrusion (FDM)
- Continuous Fibre Reinforcement (CFR)
- Large Volume FDM
- Stereolithography (SLA)
- Selective Laser Sintering (SLS)
- Multi-Material Jetting Photopolymer
- Metal Bound Powder Extrusion (BPE)
- Laser Engraving & Cutting
- Water Jet Cutting

PRODUCT DESIGN AND DEVELOPMENT

- Computer Aided Design (CAD)
- Value Engineering (DFMEA/DfMA)
- Design Optimisation/Simulation (FEA/CFD)
- 3D Scanning & Reverse Engineering

POLYMER PROCESSING

- Compounding
- Extrusion
- Filament Winding
- Moulding

BESPOKE FABRICATION SERVICES

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ADVANCED ELECTRONICS

Our advanced electronics capability enables you to streamline your electronic product design process, and improve performance by prototyping concepts faster, with more agility, and improved sustainability.

Whether you're developing new products, finessing prototypes, or reworking existing products, you can use our innovative electronics suite to first try out your ideas, for that extra reassurance that they are fit for purpose before committing to mass-production.

Utilising our local advanced electronics capability reduces the time-to-market for new product developments, removes the risks, delays, and costs of global factors, and gives you unparalleled agility in your innovation process.

SPECIALIST CAPABILITIES AVAILABLE :

PCB PRODUCTION SUITE

- LPKF Protolaser S4 Laser System
- LPKF ProtoMat PCB Milling System
- LPKF Contac S4 Electroplater
- LPKF Protoprint S Stencil Printer
- LPKF Protoplace Pick & Place System
- LPKF Protoflow S PCB Oven
- LPKF Multipress S Hydraulic Press

MANUAL SOLDERING & REWORKING

- PACE MBT Soldering Station
- PDR IR Rework System

BESPOKE SERVICES

- Fault-finding & Diagnosis
- Electronic Design
- Software Design
- Mechanical & Industrial Design
- Design Integration & Prototyping

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ADVANCED MATERIALS

We can use advanced materials technology to work with you to innovate novel materials and applications, to investigate your product's properties and performance, and to give you a better understanding of its effectiveness and commercial opportunities.

Within InventX we have a comprehensive suite of scientific laboratory equipment to support your material characterisation and analytical needs, and our experienced team of technical experts will work alongside you to add unparalleled levels of insight to your innovation process.

Add confidence and clarity to your innovation process by utilising our equipment and technical expertise. We use a wide range of scientific equipment to support our ongoing academic research, and by working with us, your business can benefit from our extensive knowledge, without the need to invest in specialist skills and expensive equipment independently.

SPECIALIST CAPABILITIES AVAILABLE:

MICROSCOPY AND SPECTROSCOPY

- Optical Microscopy
- Scanning Electron Microscopy (SEM)
- Surface Roughness Mapping & Analysis
- Fourier Transform Infrared Spectroscopy (FTIR)

MATERIAL CHARACTERISATION

- Energy Dispersive X-ray Analysis (EDX)
- Thermogravimetric Analysis (TGA)
- Differential Scanning Calorimeter (DSC)
- Hybrid Rheology

LABORATORY CAPABILITIES

- Fume Cupboard
- Laboratory Oven
- Vacuum Oven
- Micro-Balance
- Chemical Stores
- Gas Supplies
- Glassware
- Ultrasonic Baths
- Mixers, Stirrers & Hot Plates

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BESPOKE RESEARCH, DEVELOPMENT AND INNOVATION

Our InventX space is your gateway to access the vast academic research capability that the University of Hull has to offer. Our in-house experts can help you understand what current experimental, technical and academic ability we have, and how it can be deployed to the benefit of your business.

We can work with you to commission bespoke research, development and innovation projects, and by working with our strategic partners we can bring together world class equipment and expertise, specifically tailored to your individual needs.

Commissioning bespoke research for your business might not be as complex and costly as you think. By working with us we can utilise existing equipment and expertise to minimise the cost and lead-times of commissioning bespoke R&D projects.

SPECIALIST CAPABILITIES AVAILABLE :

CLASS IV LASER SAFE ENVIRONMENTAL CHAMBER

- Solar Spectrum Simulation
- Solar Thermal Simulation
- Material/Product Testing
- Thermal Imaging

EXPERIMENTAL FLUMES

- Stratified Flow Flume
- Sediment Transport
- Flow Dynamics
- Environmental

PARTICLE TRACKING

- Fluids
- Gaseous

ACOUSTICS

- Anechoic Chamber
- Acoustic Wind Tunnels

THERMAL IMAGING

DATA ACQUISITION & PROCESSING

BESPOKE CONSULTATIONS


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**HAVE WE CAUGHT YOUR ATTENTION?
GOT AN IDEA YOU THINK WE COULD
HELP YOU WITH?**

**GET IN TOUCH NOW TO TALK TO US
ABOUT YOUR PROJECT**

 aic.aura@hull.ac.uk

 01482 464700

 aura-innovation.co.uk/contact

AND THAT'S NOT ALL...

Did you know the Aura Innovation Centre is also home to a wide range of available coworking and event space?

Whether you're looking for a location to host your next meeting or conference, or you're interested in sustainable coworking space, get in touch.

Aura Innovation Centre, Bridgehead Business Park,
Meadow Road, Hessle, HU13 0GD

WELCOME TO AN INNOVATION SPACE LIKE NO OTHER

