

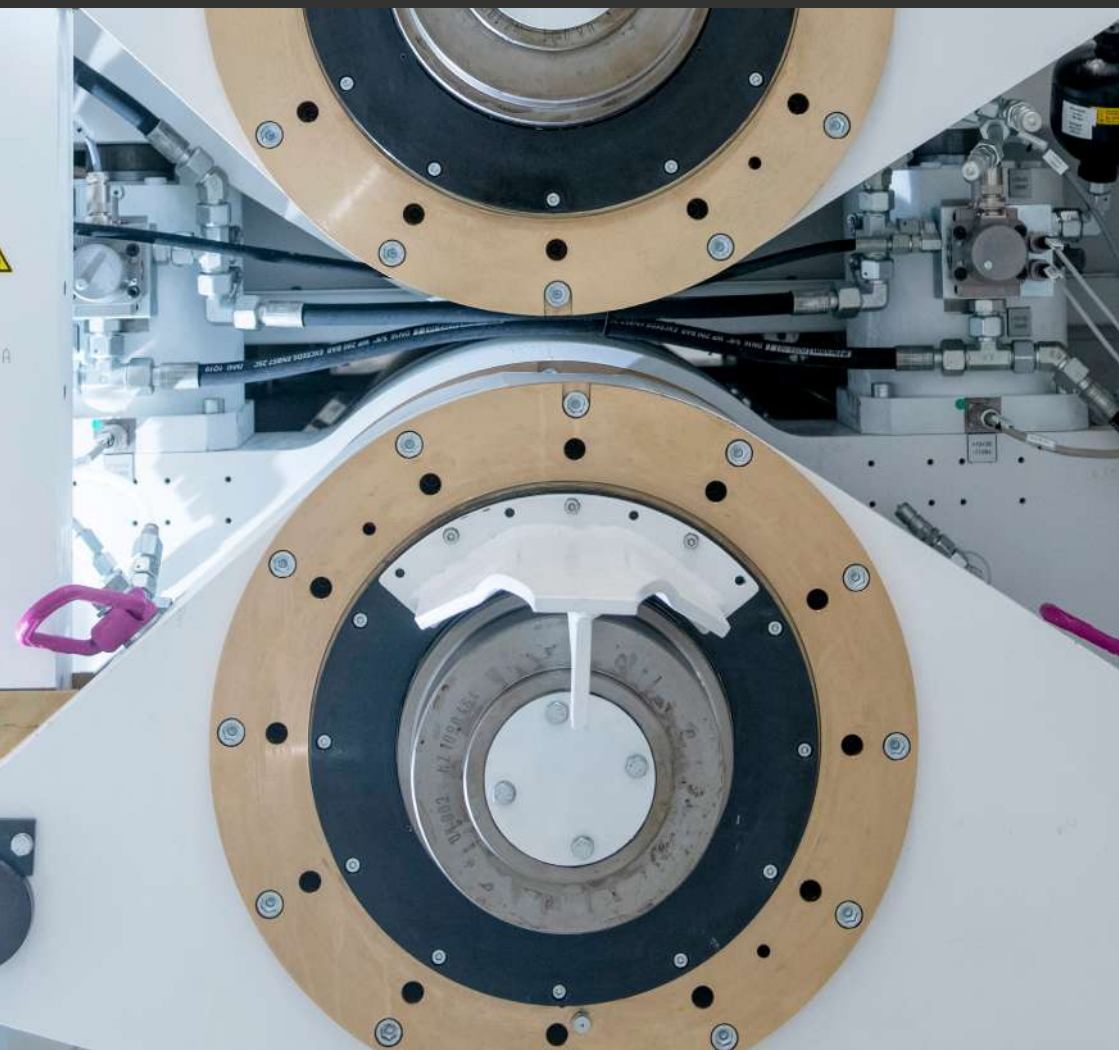


UK BATTERY
INDUSTRIALISATION
CENTRE



UKBIC

Helping companies scale-up their
battery technologies and upskill their teams





The UK Battery Industrialisation Centre (UKBIC) is the country's open-access national battery manufacturing development facility, providing scale-up and helping develop skills to support the transition to an electrified future



UK Battery Industrialisation Centre
Rowley Road, Baginton
Coventry
United Kingdom
CV8 3AL



www.ukbic.co.uk



UKBIC



sales@ukbic.co.uk



Providing support to the battery sector

- + Open-access, modular facility
- + Electrode and cell production at industrial rates
- + Giga-scale equipment
- + Flexible line for smaller-scale developments
- + Module and pack assembly and testing
- + Skills and training
- + State-of-the-art battery development laboratory
- + Flexible clean and dry space
- + Formation, ageing, and testing facility
- + Cell cycling and simulation services

Increase
investor
confidence

Reduce
risk for
investment

Simplify
volume
manufacture

Optimise
products and
processes

Your technology, your IP

- + We don't take a stake in your IP
- + Our flexible facilities are designed so several users can run projects simultaneously

For client testimonials, visit www.ukbic.co.uk/our-clients

Industrial Scale-up Line (ISL)

Our Giga-scale ISL covers the whole battery manufacturing process from electrode production to both cylindrical and pouch cell assembly

Unlike a typical gigafactory, our equipment is set up to be modular.

That means a client could just utilise one or two sections of the line – coating and calendaring for example – without having to go all the way through to cell assembly.

By offering this capability, we make it easier and more affordable for all sorts of companies to access gigafactory-scale equipment in a way that suits them best.

In addition, we have two baseline cell designs – a 21700 cylindrical and a 300mm x 100mm pouch cell – that can be used by customers to further develop and scale their own technologies.

- + **Reducing risk**
for high volume manufacturing investments
- + **Open access**
to promote industrial collaboration for organisations of all sizes
- + **Own your IP**
as we don't take a share in customers' IP developed through our facility



Flexible Pilot Line (FPL)

Our new FPL is used for product development, validation and commercial activities, allowing customers to innovate and learn quickly

The FPL has been designed to bridge the gap between demonstrator lines elsewhere to our existing ISL.

Just like the ISL, it covers the whole electrode manufacturing process, starting from mixing all the way to slitting and, very soon, cell assembly.

Mixing is divided into two separate lines, allowing for both conventional and low flash point solvent options, as well as small batch production.

Each process zone is individually climate-controlled, offering a dry environment and allowing for custom conditions from room to room.

The new cell assembly will allow customers to build tabbed and tabless 21700s, smaller pouch, and 4695 cells.

Cost effective

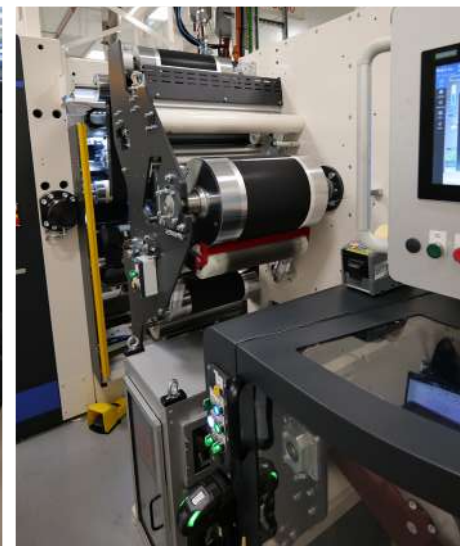
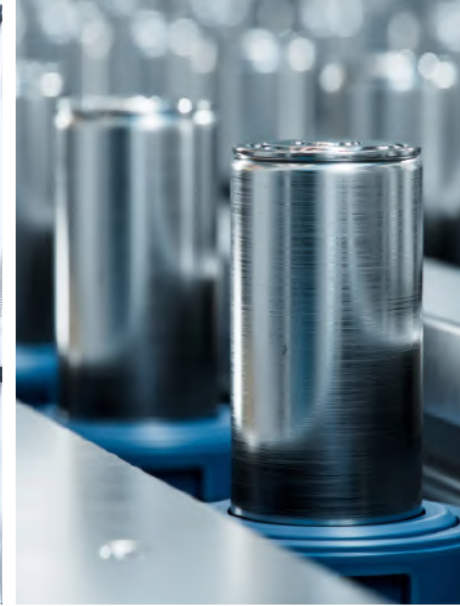
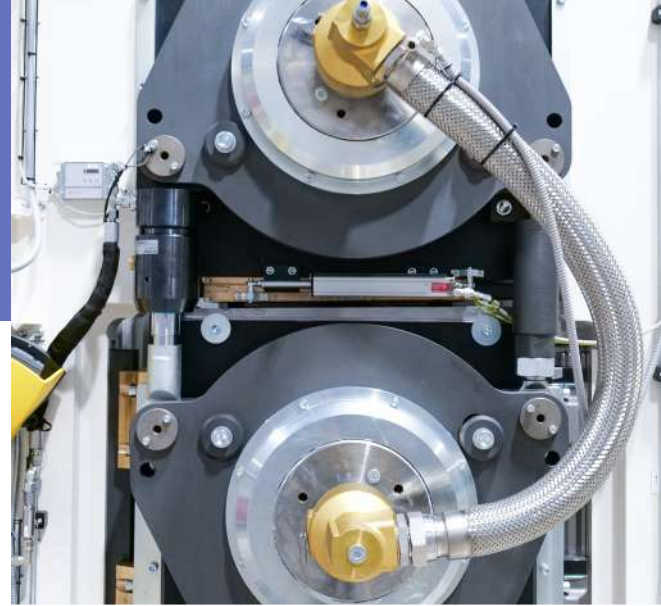
- + Lower cost solution for smaller-run manufacture and development

Flexible

- + Compatible with multiple solvents and chemistries

New cell formats

- + Expanded cell assembly options



Module and Pack Assembly

Our agile module and pack assembly line transforms cylindrical, prismatic, and pouch cells into modules and packs that are ready for installation or for further testing

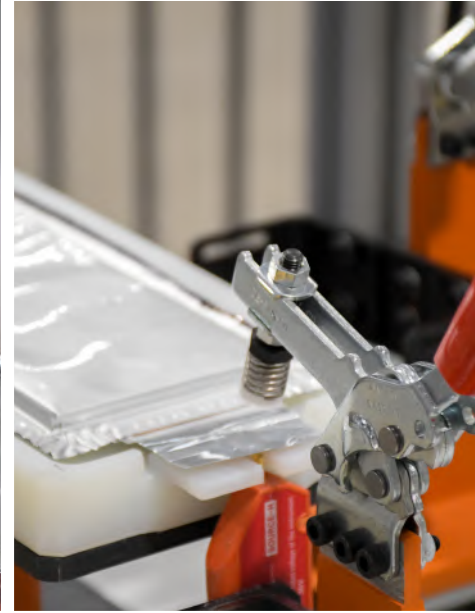
Our module and pack assembly line can be used with either our own or client supplied cells to produce quality modules and packs.

Our specialised staff can provide support at every level: from design to initial prototyping and on to final assembly and end-of-line testing

We can conduct design for manufacture and/or assembly studies to ensure your product is prepared for efficient manufacturing, and guide you in your product development.

We can help with disassembly to ensure your product can be efficiently and cost-effectively recycled at its end-of-life.

- Specialist staff**
Support on and off the line
- Configurable order of process**
Flexible to your project
- End-of-line testing**
Comprehensive and bespoke testing
- Laser welding**
High accuracy and weld quality



Battery Development Laboratory (BDL)

Our lab specialises in the characterisation of raw materials, slurries, coated electrodes and finished cells, including destructive and non-destructive cell teardown

The BDL offers state-of-the-art analytical equipment and techniques designed to support your project, meaning you benefit from short turnaround times and rapid feedback.

- CT scanning**
 - + Non-destructive analysis of cells to evaluate potential assembly defects or failure modes without physical teardown
- Characterisation**
 - + Analysis of material properties such as morphology, crystal structure, and elemental composition
- Processing**
 - + Preparation and analysis of elements and compounds in liquid samples using a variety of methods
- Electrochemistry**
 - + Advanced electrochemical analysis of cells
- Forensics**
 - + Specialist glovebox equipped with thermal and optical cameras



Simulation and Data Science

Our simulation engineers and data analysts help you make the most of your data, ensuring you optimise your products and processes



Electrochemical simulation

We offer ready-to-use models, or we can develop a bespoke tool for advanced analysis.

Process simulation

Our simulation engineers can use modelling and simulation to help:

- Reduce costs**
 - + Reduce the quantity of wasted materials
- Save time**
 - + Reduce setup time on the line by providing process parameters
- Improve understanding**
 - + Recognise why a process happens the way it does
- Verify your product or equipment**
 - + Determine the limitations of your technology

Data Analysis

Our team helps you understand the vast amounts of data collected during a production process by finding patterns and making connections to tell you what happened and why.

Clean and Dry Zone

Our flexible clean and dry rooms offer customers the chance to access climate controlled clean room spaces perfect for a variety of uses within cell development

Room sizes range from 83m² to 245m², with the option to extend the space by removing interior dividing walls. One room is also equipped with a higher ceiling to accommodate processes which require additional elevation.

Customer security is important to us, which is why each room has individual, card-controlled access to help protect your IP.

- + Secure**
Five rooms with individual access
- + Flexible**
Rooms are built to accommodate a range of equipment
- + Controlled environment**
Rooms are ISO 7 clean rooms with an ambient to -40°C dew point



Cell Cycling

The cyclers and environmental chambers enable developers to continuously charge and discharge cylindrical and pouch cells, and to measure how many cycles a battery can deliver over its life



192
Cylindrical
cell 15A test
channels

96
Pouch cell
100A test
channels

- + Extended life-cycle testing**
To complement our existing lines and support your commercial projects
- + Environmental control**
Chambers can be set to your temperature requirements, between -40°C and 100°C, with an accuracy of $\pm 2^\circ\text{C}$
- + Temperature measurement**
Each cell is fitted with its own sensor for comprehensive temperature monitoring

Training at UKBIC

We have experienced trainers and offer a range of courses which can be tailored to the needs of your organisation

We offer public and bespoke training courses to help build the knowledge and skills base for battery manufacturing in the UK and beyond. The centre has been recognised as an accredited learning centre for battery manufacturing by EAL, the specialist skills partner and awarding organisation for engineering and manufacturing.

Bespoke courses

We offer training with delivery adapted to your needs, from introductions and first principles to detailed in-depth practical knowledge and skills. Training can be provided in person or remotely, delivering the knowledge and understanding you need to develop your organisation.

Our training covers a variety of areas, including in-depth training in specific areas in the battery manufacturing process, as well as safety awareness, sustainable manufacturing, and cell design.

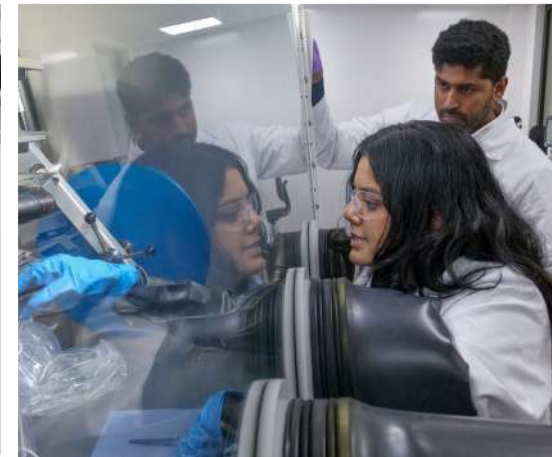
We're happy to meet with you to plan how our training can meet your needs.

Introduction to Battery Manufacturing

Our EAL-approved, two-day course is designed to provide a basic introduction to cell manufacturing and use, outlining how to develop and create battery technologies and offering the chance to experience life on the line at our facility.

Our experienced trainers take delegates through the basics of battery technology and manufacturing, offering insight into the production processes on our lines.

Find out more and book at www.ukbic.co.uk/courses



UKBIC is part of the Battery Innovation Programme

The Battery Innovation Programme, funded by the Department for Business and Trade and delivered by Innovate UK, is a £452 million programme running from 2026 to 2030.

It is designed to grow the UK economy by accelerating battery innovation and enhancing the nation's global competitiveness across automotive, aerospace, off-highway, storage and maritime.



Delivered by
Innovate UK



Contact us

Message one of our teams below and we'll be in touch.

Sales: sales@ukbic.co.uk

Careers & recruitment: careers@ukbic.co.uk

Media: media@ukbic.co.uk

Suppliers: suppliers@ukbic.co.uk

Training: training@ukbic.co.uk

General: info@ukbic.co.uk

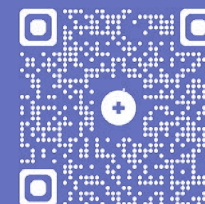


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Rowley Road, Baginton
Coventry
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United Kingdom

Business hours

Monday to Thursday	08:00 to 17:00
Friday	08:00 to 13:00

Looking for more? Get a digital copy of our extended brochure to read about the technical specifications of our equipment.





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