



# Secure Battery Storage

## Contain Your Risk with S Jones Conversions

S Jones Conversions design and manufacture bespoke containers and enclosures for the safe and compliant storage of Lithium-Ion batteries.

We are the UK's leading container conversions specialist. See why so many of the world's most trusted organisations, brands and universities choose S Jones Conversions.

# The Market Leaders In Battery Storage Rooms

S Jones Conversions specialises in converting shipping containers into bespoke storage units with robust safety systems built into their design from the outset. To mitigate risks when storing large quantities of individual cells or packs of Li-on batteries, our containers monitor the environment within, signal alarms prior to critical failure, reduce the risk of injury in the event of explosion or fire, and provide environmental containment.

What sets us apart from other container companies is our industry-leading engineering capabilities. While there are other container conversion companies out there, only with S Jones do you benefit from extensive expertise and experience in delivering complex Li-on battery storage solutions for the UK's leading universities and automotive companies.

## We specialise in:

- Mobile and remote safe storage, for storage away from main buildings and at-risk areas
- Temperature controlled - steady and cool
- Moisture and humidity control
- Gas detection / gas removal
- Controlled explosion relief
- Fire containment and alarms
- Fire suppression systems or integration with site systems
- ATEX electrics
- Bunded liquid containment



## Ready To Talk?

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**Temperature Control** – Our converted container based battery storage rooms can be fitted with HVAC systems and additional ventilation to ensure that the internal temperature remains optimal for safe battery storage.

**Environment Control** – Sunlight generates heat, heat is a dangerous ingredient when it comes to battery storage. It's important your lithium-ion batteries are stored in a dark environment and not exposed to direct sunlight. A windowless shipping container blocks out any sunlight and keeps the batteries in a cool, dark and importantly, dry environment.

**Fire-Proofing and Containment** – Our fire-containing enclosures are flame retardant to prevent external fires from igniting the stored batteries and creating an even greater danger.

The fire resistant lining system installed within your container's construction will contain the flames and prevent fire from penetrating the walls and doors. Additional smoke detection can be added during production.



**Moisture and Humidity Control** – Our converted battery storage containers include moisture and humidity control in the form of [moisture traps and anti-condensation treatments](#), air monitoring, and gas detection with alarms.

**Remote Storage and Hazard Avoidance** – The safest way to store batteries is away from buildings and other at-risk areas. Should any incident occur, any dangers or risks are then safely out of harm's way. With a mobile container based battery storage room, you have the flexibility to position the battery store a safe distance from your main building and reposition as and when necessary.

Our battery storage containers also come complete with controlled explosion venting and bunded storage for contaminated liquids to help prevent uncontrolled release into the environment.

**Easy Day-To-Day Use** – Hazardous products should be stored in limited volumes to limit the spread of any dangers in the event of an incident. As a result, we offer custom built racking for the safe storage of heavy and hazardous batteries and battery packs. Our containers are also full side-opening for easy lift truck access.



# State of the Art Battery Storage For Coventry University

As part of their mission to build, test and further improve on future-proof powertrain concepts, Coventry University reached out to our specialist shipping [container conversion](#) team for a 20ft lithium battery store, complete with ATEX Zone II interior electrical and HVAC installations, explosion venting and fire protected storage shelving.

After working with Coventry University on the specification, we used our [CAD](#) expertise to generate an accurate visual representation of the container that would ensure full functionality prior to build. Building from this design, we then fabricated the [battery store](#) in our purpose built workshop before repainting it in our professional paint booth.

## What Coventry University Had To Say:

"It has been over 5 years since I worked with S Jones on the very first bespoke container for battery storage. Having the ability to store our new and used Lithium-ion batteries safely plays a key part in the operations of our research centre.

I am very pleased to see the design of the container has evolved over the years to include many new features to meet the latest safety requirements, making it the industry's best practice for battery storage!"

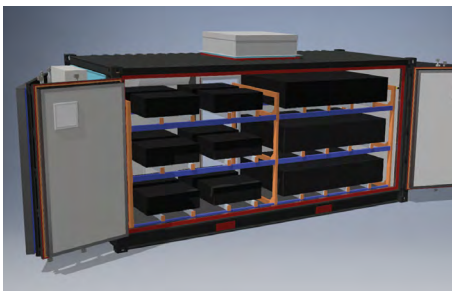
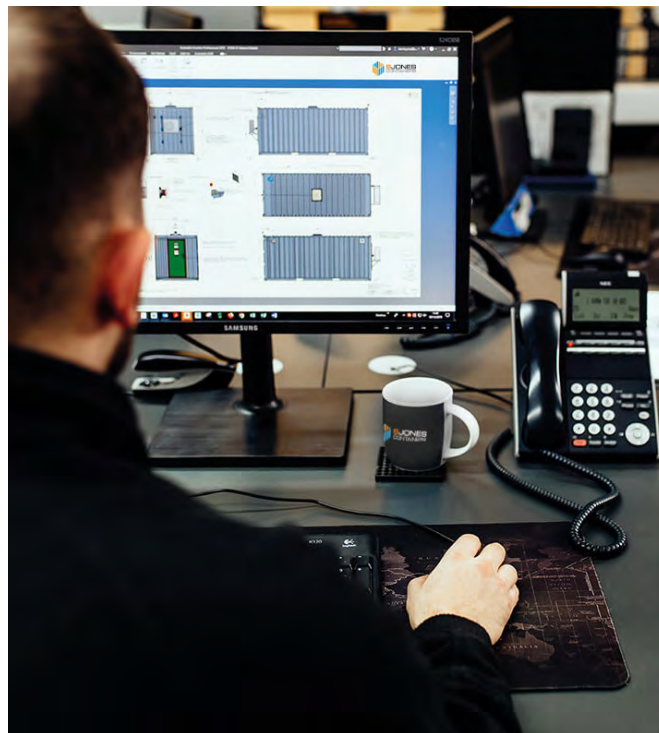
*Professor Yue Guo,  
Chair of Battery Systems at Coventry University*

# Designed and Built To Your Exact Requirements

Our design and manufacturing capabilities are some of the most advanced in our industry and include; 3D CAD modelling, bespoke fabrication and manufacture, and a 'whole container' paint booth for controlled surface coatings.

From a full understanding of your technical requirements for the container conversion project, through to CAD concepts and proofing to manufacture, we give you complete visibility on lead times and control over the end-product.

Our team of expert engineers will turn your ideas into realistic, realisable designs, working with you every step of the way. This allows you to see exactly what your containerised solution will look like before manufacturing takes place in our on-site workshops.





## Why Choose Us?

S Jones only employs highly qualified and experienced engineers and industry experts. Building from decades of experience in delivering bespoke container conversions for organisations in a wide range of sectors, we add value to your converted shipping containers at every stage with:

- Extensive product knowledge of containers and ancillary equipment
- Design experience with structural assessment and 3D Computer Aided Design modelling
- Thorough project investigation to ensure suitable specifications, high quality workmanship and customer service

**We deliver solutions through a diversity of services, based on proven engineering know-how and innovative methods and technology. This means we can help you think differently, embrace the latest engineering innovations and minimise project risk to ensure the best possible solution.**

# Our Container Conversion Services



## **Agile Digital Visualisation** –

bespoke 3D CAD models enable our engineers to guide you through the art of the possible, leading to quicker and better decision making and improved customer involvement and engagement throughout the creative design process.



## **In-House 'Bake-On'**

**Paint Facility** – our large whole container paint booth

enables the professional painting of containers and bespoke units for the high-quality finish you require.



## **Expert Engineering Knowledge** –

decades of experience and extensive industry knowledge enables us to provide intricate structural modifications and create bespoke conversions that fully address your specific challenges. As a result, our solutions often prove to be ground-breaking in the industry supplied.



## **Risk Mitigation** – for complete

peace of mind, all of our bespoke container solutions are completed to appropriate health and safety and engineering standards. All electrical installations will be certified as required.



## **In-House Proofing and Fabrication**

– our experts are involved end-to-end, throughout the entire customer journey, from initial concepts through to final build, quality inspection and sign-off. We complete our customers fabrication in our own workshops based in the West Midlands, offering customers the chance to see their vision turned into a physical reality, every step of the way.



## **Quality Control** – we carry out our

services in accordance with 'ISO9001'. We also invest heavily in R&D, which is proven through our continual contribution to the development of market-leading brands and projects worldwide with clients such as; 'Siemens', 'Centrax', 'King's College' and 'JLR'.



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