



IN THIS ISSUE

CRITT M2A is being transformed to support electric mobility

Arrival of Simon Jones : Production testing Manager

R&D at the heart of CRITT M2A's innovation strategy

We're hiring!

SYTEC

Forthcoming Events 2023

CRITT M2A is being transformed to support electromobility



To achieve its ambition, CRITT M2A is investing 9 million euros this year in new latest-generation testing resources and the opening of a new department, the GTC - Giga Test Center - dedicated to «production conformity and the certification of batteries», with the help of the Hauts-de-France Region, the Feder and BPI.

Thanks to its this new investment, CRITT M2A signed a contract with ACC (Automotive Cells Company) for 7 years, for carrying out the production tests for the future Gigafactory of Douvrin.



A hundred measurement channels to test the cells and modules produced by ACC will soon be installed, as well as innovative test means to manage the climatic, vibration and battery safety. 15 new expert employees will also be recruited to cope with the high level of activity.

CRITT M2A has sized this new department to cover the entire battery value chain. By doubling its test capacity, it is preparing for the needs of future French and European gigafactories, in particular those which plan to set up soon in Hauts-de-France.

This contract is part of the development strategy of CRITT M2A, which is totally moving from thermal towards electromobility.

CRITT M2A is proud of this recognition and of the trust granted by ACC «By joining forces with CRITT M2A, already a partner for our R&D tests, for the approval and certification of our battery production, we are choosing to excellence and territorial alliance» declared Yann Vincent, CEO of ACC.

The first tests will be carried out from October 2023 to support the ramp-up of the gigafactory.

Arrival of Simon Jones : Electrical production testing Manager

We are very pleased to introduce you to Simon Jones, who joined CRITT M2A at the end of 2022, as electrical production testing Manager, as part of the tests for the ACC gigafactory which will begin next October.

Supported by a team of technicians, he will be in charge of managing and implementing the tests aimed at controlling the production conformity of the cells and modules produced in the Billy-Berclau Douvrin Gigafactory, in compliance with customer performance requirements, environmental and safety.

From management, to planning, including the report of technical files and the traceability of results, Simon will thus ensure the privileged link between CRITTM2A and the technical correspondents of the production lines.



«Always attracted to the automotive sector, I wanted to focus on this field as part of my studies. Holder of a general engineering degree and a master's degree in Data Science, I had the chance to carry out several of my internships at CRITTM2A.

On leaving my engineering school, CRITTM2A gave me the opportunity to participate in the creation of the GTC project which, due to its size and its industrial issues, represents a real challenge for me and a source of pride that will allow me to contribute in my own way to the development of electrification in the Hauts-De-France Region»

R&D at the heart of CRITT M2A's innovation strategy

At CRITT M2A, R&D is focused on applied research with a vocation to develop commercial activities in the medium to long term.

In the short term, CRITT M2A develops research projects that last from 1 to 4 years. Following the project, the knowledge and technological advances developed lead to a new activity and commercial development which makes it possible to extend our service offer.

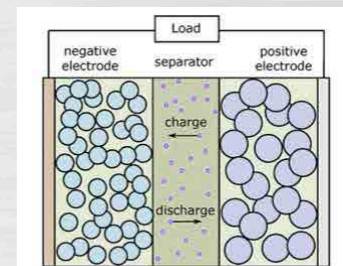
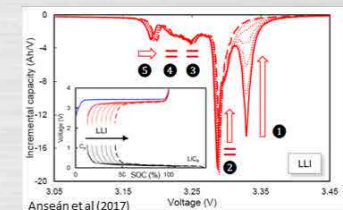
Our activity consists of a work of maturation, assembly, labeling, research of financing then realization of structuring and innovative projects in mono portage or in consortium.

We are currently carrying out various projects relating to the electrified traction chain, including the VITESS and RECYBAT projects.

The VITESS project aims to develop a digital platform, for virtual and hybrid tests, based on a scale model of a battery cell and which operates with non-intrusive methods of diagnosis and prognostics.

The extrapolation will not only allow the projection of the battery health but also the numerical characterization of its electrical, thermal and mechanical performance as well as the study of its aging in operating conditions different from the physical test.

These virtual tests will complement the commercial offer and will reduce the time and cost of a test campaign with an acceptable compromise on their validity.



RECYBAT is a collaborative project carried out with UMET and CREPIM which aims to contribute to the establishment of a platform of expertise concerning the regeneration and reuse of batteries for a second service life.

Li-Ion battery cell aging mechanisms are complex and to date there is no method to predict battery life.

However, this parameter is really important to give a second life to batteries.

The objective is to address a characterization protocol to clarify the relationship between the risk of failure and the prediction of battery life in their new usage profile.



We're hiring!

As part of the development of the electrical test center, the creation of the Giga Test Center and new projects, CRITT M2A is strengthening its teams and recruiting several employees:

- Battery testing technicians H/F
- Powertrain testing technicians H/F
- Battery Modeling Engineer H/F
- Power electronics R&D engineer H/F



For this recruitment campaign, the CRITT M2A is organizing a job dating on June 2, 2023.

SYTEC 2023

SYTEC 2023 will take place on Tuesday, October 3, 2023. This event is a time for discussion and sharing around technology watch and the many R&D projects of CRITT M2A.

SYTEC 2023 will be marked by the inauguration of a new department, the GTC - Giga Test Center - dedicated to «production compliance and battery certification»

Full program and registration will be available soon..



Forthcomings events 2023



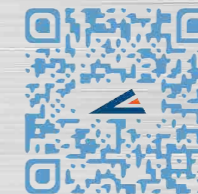
May 16-17, 2023: CRITT M2A will attend in the London International Turbocharger Conference

May 23-25, 2023: CRITT M2A will attend the Battery Show. Europe, in Stuttgart, stand 8-C20

June 14-15, 2023: CRITT M2A will attend in the SIA Powertrain conference



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Our subsidiaries

