

PRESS RELEASE
Puteaux, 24 June 2024

Blue Solutions joins forces with the CNRS, the Collège de France and Sorbonne University to develop the next generation of solid-state batteries

This two-year collaboration illustrates the shared commitment to innovation and the pursuit of advanced energy solutions essential to the transition towards clean, sustainable energy. It will focus specifically on hybrid electrolytes, aiming to improve range and enhance safety.

“The solid-state battery roadmap foresees significant developments in this technology, which is anticipated to reach maturity by 2032. This expectation highlights the growing importance of solid-state batteries in the future energy landscape, offering improved performance in terms of energy density and safety. With this in mind, Blue Solutions, the CNRS, the Collège de France and Sorbonne University are pooling their skills and resources to develop a hybrid electrolyte based on a polymer and an inorganic ionic conductor,” said Jean-Marie Tarascon, professor at the Collège de France, where he holds the Chair of Solid-State Chemistry and Energy, and winner of the CNRS gold medal in 2022.

“At Sorbonne University, we are proud to take part in collaborative initiatives such as this, which demonstrate a shared commitment to innovation and the pursuit of advanced battery solutions, paving the way for significant progress in sustainable energy,” said Christel Laberty-Robert, professor of materials science at Sorbonne University.

“This collaboration marks a crucial step towards achieving this vision, by combining the technological expertise of Blue Solutions with the academic know-how of the CNRS, the Collège de France, Sorbonne University and the teams led by Professors Jean-Marie Tarascon and Christel Laberty-Robert. Together, we are working to push the boundaries of battery technology, creating better, safer and more sustainable solutions to meet the energy needs of the future,” said Marc Deschamps, Electrochemistry Director at Blue Solutions.

About Blue Solutions

Blue Solutions is a pioneer in solid-state battery design and development, and has been working on large-scale industrialisation of solid-state batteries for 12 years. The company is based on two continents, in France (Brittany) and Canada (Quebec).

It holds ISO 9001 and ISO 14001 certifications at its production sites, demonstrating its commitment to quality and environmental responsibility. Its cutting-edge technology and its focus on advancing battery technology put Blue Solutions at the forefront of clean and efficient transport, shaping the future of sustainable mobility.

With more than 20 years of research and development experience, Blue Solutions is accelerating the development of its 4th and 5th generation of solid-state batteries while setting up joint developments and partnerships to bring the right product to the passenger mobility sphere as of 2027.

Further information can be found at www.blue-solutions.com

About the CNRS

The French National Centre for Scientific Research (Centre National de la Recherche Scientifique), better known by its acronym CNRS, is France's largest public body for scientific research. Its work covers all areas of knowledge.

As a public scientific and technological institution, the CNRS is under the administrative supervision of the Ministry of Higher Education, Research and Innovation.

Its scientific work takes place across ten national institutes, each specialising in a field of knowledge (human and social sciences, biology, chemistry, ecology and the environment, information sciences, engineering and systems sciences, mathematics, physics, nuclear and particle physics, and sciences of the universe).

About the Collège de France

The Collège de France, a public higher education and research establishment founded in Paris in 1530, has two aims: to be the home of the most daring research and its teaching. It teaches "the knowledge being formed in all fields of literature, science and the arts" to all interested audiences, without any registration or diploma requirement. It also promotes an interdisciplinary approach to research and disseminates knowledge in France and abroad.

It offers nearly 1,000 courses and conferences each year, both in its lecture halls and online, with free access for all audiences, including students, researchers and those who are simply curious. The Collège de France is an associate member of PSL University.

About Sorbonne University

Sorbonne University is a world-class multidisciplinary, research-intensive university covering the fields of humanities, health and science and engineering. Rooted in the heart of Paris and with a strong presence in different regions, Sorbonne University counts 55,000 students, 7,300 teaching and research staff and more than a hundred laboratories. Alongside its partners in the Sorbonne University Alliance, and through its multidisciplinary institutes and initiatives, it conducts and organises research and training activities to strengthen its collective contribution to the challenges of three major transitions: a global approach to health (One Health), resources for a sustainable planet (One Earth) and changing societies, languages and cultures (One Humanity). Sorbonne University is active in the fields of innovation and deeptech with the Cité de l'Innovation at Sorbonne University, more than 15,000 m² dedicated to innovation, incubation and the link between research and entrepreneurship, as well as the Sorbonne Center for Artificial Intelligence (SCAI), an "AI firm" in the heart of Paris, which organises multidisciplinary AI research and boosts its visibility. Sorbonne University is also a member of the 4EU+ Alliance, an innovative European university model that develops strategic international partnerships and promotes the openness of its community to the rest of the world. <https://www.sorbonne-universite.fr>

Press contacts

Blue Solutions | Léa Lhotellerie | T +33 6 45 20 25 55 | lea.lhotellerie@bollore.com

CNRS | Manon Landurant T +33 1 44 96 51 37 | manon.landurant@cnrs.fr

Collège de France | David Adjemian | T +33 1 44 27 10 17 | david.adjemian@college-de-france.fr

Sorbonne Université | Manon Durocher | T +33 1 44 27 92 49 | manon.durocher@sorbonne-universite.fr