PRESS RELEASE

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

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This two-year collaboration illustrates the shared commitment to innovation and the search for advanced energy solutions essential to the transition to clean, sustainable energy. It will focus specifically on hybrid electrolytes, aimed at achieving greater autonomy and enhanced safety.

"The solid-state battery roadmap foresees a significant evolution of this technology, with maturation expected by 2032. This anticipation underlines 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," explains Jean-Marie Tarascon, Professor at the Collège de France and holder of the "Solid State Chemistry and Energy" chair, and 2022 CNRS Gold Medalist.

"As Sorbonne University, we are proud to participate in collaborative initiatives such as this one, which illustrate a shared commitment to innovation and research into advanced battery solutions, paving the way for significant advances in sustainable energy," emphasizes Christel Laberty-Robert, Professor of Materials Science at Sorbonne University.

"This collaboration marks a crucial step towards realizing this vision, combining Blue Solutions' technological expertise with the academic know-how of the CNRS, Collège de France, Sorbonne University and the teams of Professors Jean- Marie Tarascon and Christel Laberty-Robert. Together, we're working to push back the frontiers of battery technology, creating higher-performance, safer and more sustainable solutions to meet the energy needs of the future," explains Marc Deschamps, Director of Electrochemistry Research at Blue Solutions.

À propos de Sorbonne Université :
Sorbonne Université est une université pluridisciplinaire de recherche intensive de rang mondial couvrant les champs disciplinaires des lettres et humanités, de la santé, et des sciences et ingénierie. Ancrée au cœur de Paris et présente en région, Sorbonne Université compte 53 000 étudiants, 7 100 personnels d'enseignement et de recherche, et plus d'une centaine de laboratoires. Aux côtés de ses partenaires de l'Alliance Sorbonne Université, et via ses instituts et initiatives pluridisciplinaires, elle conduit et programme des activités de recherche et de formation afin de renforcer sa contribution collective aux défis de trois grandes transitions : approche globale de la santé (One Health), ressources pour une planète durable (One Earth), sociétés, langues et cultures en mutation (One Humanity). Sorbonne Université est investie dans les domaines de l'innovation et de la deeptech avec la Cité de l'innovation Sorbonne Université,

plus de 15 000 m2 dédiés à l'innovation, l'incubation et au lien entre recherche et entrepreneuriat mais aussi Sorbonne Center of Artificial Intelligence (SCAI), une « maison de l'IA » en plein cœur de Paris, pour organiser et rendre visible la recherche multidisciplinaire en IA. Sorbonne Université est également membre de l'Alliance 4EU+, un modèle novateur d'université européenne qui développe des partenariats stratégiques internationaux et promeut l'ouverture de sa communauté sur le reste du monde. *https://www.sorbonne-universite.fr*

About Blue Solutions

Blue Solutions is a pioneer in solid-state battery design and development, and has been industrializing large-scale solid-state batteries for 12 years. The company is based on two continents: France (Brittany) and Canada (Quebec). It holds ISO 9001 and ISO 14001 certifications at its production sites, testifying to its commitment to quality and environmental responsibility. Leading-edge technology and a focus on advancing battery technology position Blue Solutions at the forefront of clean, efficient transportation, shaping the future of sustainable mobility. With over 20 years' experience in research and development, Blue Solutions is accelerating the development of its 4th and 5th generation solid-state batteries, and setting up joint developments and partnerships to bring the right product to passenger mobility from 2027. More information on https://www.blue-solutions.com/

About the CNRS

The Centre national de la recherche scientifique, better known by its acronym CNRS, is France's largest public scientific research organization. It is active in all fields of knowledge. A public scientific and technological establishment (EPST), it is placed under the administrative supervision of the Ministry of Higher Education, Research and Innovation. Its scientific activities are divided between ten national institutes specializing in a particular field of knowledge (human and social sciences, biology, chemistry, ecology and environment, information sciences, engineering and systems sciences, mathematics, physics, nuclear and particle physics, universal sciences).

About the Collège de France

The Collège de France, a public institution of higher education and research established in Paris in 1530, has a dual vocation: to be both a place for the most daring research and a place for its teaching. It teaches all interested parties, regardless of enrolment requirements or qualifications, "the knowledge being built up in all fields of literature, science and the arts". Its mission is also to promote interdisciplinary research and disseminate knowledge in France and abroad. In its lecture halls and online, the Collège de France offers nearly 1,000 courses and lectures each year, freely accessible to all: students, researchers and the simply curious. Collège de France is an associate member of PSL University.

Press Contacts

Alyssa Perrott – international press at Sorbonne University
01 44 27 47 01
alyssa.perrott@sorbonne-universite.fr

Katherine Tyrka – Sorbonne University
01 44 27 51 05
katherine.tyrka@sorbonne-universite.fr