

PRESS RELEASE

LAUNCH OF THE AMIE LABCOM: A SCIENTIFIC AND INDUSTRIAL ALLIANCE FOR EVER MORE EFFICIENT AND ECO-FRIENDLY ITEN ALL-SOLID-STATE BATTERIES

Lyon, 8 July 2025 - ENS de Lyon, the CNRS, Université Claude Bernard Lyon 1, ITEN and the French National Research Agency (ANR) have announced the launch of the AMIE LabCom (Analysis of Materials and Interfaces for Energy). This strategic partnership, supported by the ANR with €363,000 in funding, brings together academic research and industrial innovation to push the boundaries of ITEN all-solid-state battery performance, sustainability, and eco-responsibility.



Operational since April 2025, the AMIE LabCom merges the renowned expertise of the Chemistry Laboratory (CNRS / ENS de Lyon / UCBL) with ITEN's industrial know-how. Located at ENS Lyon, the Chemistry Laboratory is recognized for its excellence, especially in the study and modeling of surfaces, interfaces, nanomaterials, as well as ionic liquids. ITEN is a pioneering industrial scale-up in the design and manufacture of all-solid ceramic batteries.

While ITEN batteries already stand out for their safety, fast charging, high energy and power densities and low environmental impact, the work of the AMIE LabCom will further enhance performance and durability by deeply investigating the physicochemical phenomena within the batteries.

The AMIE Joint Laboratory benefits from €363,000 in funding over 54 months from the ANR, allowing the addition of 3 PhD candidates and 2 postdoctoral researchers to the Chemistry Laboratory's team in the short term.

Technological Innovation and Reduced Environmental Impact

AMIE's initial research will focus on three main topics:

- Developing new nanomaterial synthesis processes to further minimize environmental impact;
- Optimizing and creating new solid electrolytes to improve battery durability and expand their operating temperature range (especially at lower temperatures);
- Studying and modeling chemical and electrochemical reactions at battery interfaces to anticipate aging, boost efficiency, and double battery lifespan.

Vincent Cobée, CEO of ITEN: "The creation of this joint lab between the world-renowned Chemistry Laboratory and ITEN, the originator of a unique solid-state battery technology, is a continuation and amplification of a fruitful collaboration initiated over a decade ago with CNRS Research Director Frédéric Chaput. This new lab will accelerate the development of our energy storage technology, enhance its durability, further reduce its environmental footprint, and sharpen our competitive edge. ITEN's technology ranks among the most promising globally, and we intend to not only maintain but strengthen this lead. AMIE's work will deepen our expertise,

speed up our development, and strengthen our connection with future professionals trained at ENS de Lyon."

Stéphane Parola, VP Strategy at ENS de Lyon and former Director of the Chemistry Laboratory: "This joint lab with ITEN is the culmination of a 10-year collaboration on material design. Strengthening this partnership through AMIE LabCom opens highly strategic opportunities for the Chemistry Lab and its overseeing institutions. By promoting interdisciplinarity within the research teams, between materials chemistry and modeling, AMIE will generate fundamental knowledge about physicochemical phenomena occurring at the various interfaces in ITEN solid-state batteries. This is an exciting innovation challenge, bridging core expertise from basic research to real-world applications."

Mehdi Gmar, Deputy Director for Innovation at CNRS: "CNRS welcomes the creation of the AMIE LabCom, which formalizes a long-standing relationship between the Chemistry Laboratory and ITEN, an industrial start-up born from basic research. CNRS partners with companies like ITEN that invest in research to lead innovation and stay competitive. The joint laboratory model is an ideal framework for building sustainable public-private relationships."

Arnaud Torres, Advisor to the ANR Presidency: "ANR's LabCom program aims to facilitate the creation of lasting partnerships between businesses and academic researchers, in the form of Joint Laboratories, to better address scientific challenges raised by the socio-economic world. By connecting academic research and industrial innovation to investigate physicochemical mechanisms in depth, the AMIE LabCom will help improve the performance of ITEN's high-energy-density solid-state microbatteries, leveraging innovative materials and optimized interfaces. We are proud to support this LabCom, which aligns with ANR's broader mission to foster innovation."

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About:

The Chemistry Laboratory (LCH) is a joint research unit of ENS de Lyon and CNRS, affiliated with Claude Bernard Lyon 1 University, located on the ENS de Lyon campus. Known for scientific excellence in various fields of chemistry including materials and nanomaterials, ionic liquids, and interface modeling, the lab boasts state-of-the-art equipment (NMR, EPR, SAXS, XRD, electrochemistry, calorimetry, EC-STM, electron microscopy) and access to a high-performance data center. It also benefits from advanced project management and tech transfer services.

ITEN is a French industrial gem and leader in the development and production of unparalleled power solid-state batteries. It is one of the rare players worldwide capable of industrial-scale production of this technology, mastering the entire value chain. These revolutionary batteries meet the needs of compact and powerful electronic systems like IoT devices, autonomous sensors, and wearables. At the heart of the DeepTech ecosystem, ITEN holds over 200 patents. Based in Dardilly, near Lyon, it has twice won the World Innovation Contest (2015, 2017) and is a French Tech 120 winner in 2023, 2024, and 2025. It received the 2024 CES Best of Innovation Award in Las Vegas for its 250 μ A.h microbattery – the second French company ever to win since CES began in 1967. In late 2022, ITEN raised €80 million from BPI France, Groupe SEB, Innovacom, EREN Group, and EREN Habert Dassault Finance. www.iten.com

CNRS is a world-leading research organization and the only French national institution active across all scientific disciplines. Its multidisciplinary structure allows it to combine scientific domains to tackle contemporary challenges alongside public and socio-economic actors. Together, science serves sustainable progress for the benefit of society.
www.cnrs.fr

ENS de Lyon produces high-level research across its thirty laboratories and research platforms, and trains 2,400 students, including nearly 500 PhD candidates. Its mission is to create impactful research, innovation, and technology transfer, while enriching the public sector and socio-economic world with graduates adept at handling complexity and knowledge transmission. Over 30 startups have been incubated there.
www.ens-lyon.fr

ANR is a public institution under the French Ministry for Research, and for 20 years has been France's national project-based research funding agency. It supports fundamental and applied research across all disciplines nationally, in Europe, and internationally. ANR also funds technical innovation and technology transfer, public-private research partnerships, and fosters science-society dialogue. It is the main operator of the France 2030 plan in higher education and research. Certified ISO 9001 and awarded the "Professional Equality" label.
www.anr.fr