



THE BATTERY MATERIALS INNOVATION CENTER

Established in 2021, the Battery Materials Innovation Center (BMIC) in Kings Mountain, NC, is a world-class battery materials synthesis and testing facility that accelerates Albemarle's development of new lithium products and their transition to customers.

State-of-the-art synthesis equipment opens routes to new materials, while a suite of materials characterization tools support quick feedback loops and in-depth understanding.

Battery cell fabrication and testing facilities, from coin cells to (mobile phone battery size) multi-layer pouch cells, enable us to anticipate application challenges to shorten productization and customer adoption timelines.

High-precision rolling and laminating capabilities are used to create lithium metal anodes a fraction the thickness of a human hair for next frontier lithium metal batteries.



Innovation Through Deep Fundamental Understanding & Customer Collaboration



ACCELERATE MATERIAL DEVELOPMENT

Our team's strong collaboration, internally and externally, paired with BMIC's advanced capabilities creates a fast-feedback and innovative environment that accelerates development cycles.



DESIGN FOR CUSTOMER VALUE

Understanding where market trends, customer needs and technology advances must meet in the future allows us to anticipate customer needs and develop value-added products. Strategic external partnerships creates win-win situations for us and our customers.



LEAD NEXT FRONTIER PERFORMANCE

Albemarle is committed to being a technology leader through lithium product innovation. From today's lithium salts, to enabling tomorrow's lithium metal batteries to enhancing sustainability through recycling, BMIC is helping unlock the potential of lithium battery materials.

BMIC Key Features

- 1,000 sq. ft. dry room
- Pilot scale multi-Ah pouch cell line
- High-precision lithium rolling mill
- 100's of cell testing channels and multiple environmental chambers
- Material synthesis from gram to kilogram scale
- In-house analytical instruments including SEM, ICP, XPS, & XRD
- Collaborative team of experienced chemists, engineers, metallurgists, electrochemists, & material scientists

Contact info

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