



## Ford Accelerates Battery R&D with Dedicated Team, New Global Battery Center of Excellence Named Ford Ion Park

- Building on nearly two decades of battery expertise, Ford creates new global battery center of excellence – called Ford Ion Park – in southeast Michigan; cross-functional team in place to drive high-volume battery cell delivery, better range and lower costs for customers
- Ford Ion Park will use state-of-the-art equipment to pilot new manufacturing techniques that will allow Ford to quickly scale breakthrough battery cell designs with novel materials once the company vertically integrates battery cells and batteries
- \$185 million collaborative learning lab coming next year will develop and manufacture lithium ion and solid-state vehicle battery cells and arrays, test manufacturing approaches, while team optimizes all aspects of the value chain – from mines to recycling

**DEARBORN, Mich., April 27, 2021** – Ford today announces a new global battery center of excellence – called Ford Ion Park – to accelerate research and development of battery and battery cell technology – including future battery manufacturing.

“We’re already scaling production of all-electric vehicles around the world as more customers experience and crave the fun-to-drive benefits of electric vehicles with zero emissions,” said Hau Thai-Tang, Ford’s chief product platform and operations officer. “Investing in more battery R&D ultimately will help us speed the process to deliver more, even better, lower cost EVs for customers over time.”

The company is building on nearly two decades of battery expertise by centralizing a cross-functional team of 150 experts in battery technology development, research, manufacturing, planning, purchasing, quality and finance to help Ford more quickly develop and manufacture battery cells and batteries.

The Ford Ion Park team also is exploring better integration and innovation opportunities across all aspects of the value chain – from mines to recycling – working with all teams within Ford, including experts at Ford’s new Battery Benchmarking and Test Laboratory, Ford Customer Service Division, plus key suppliers and partners.

“We are creating new tools and solutions we need for a carbon-free, affordable and better future,” Thai-Tang said. “We are modernizing Ford’s battery development and manufacturing capabilities so we can better control costs and production variables in-house and scale production around the world with speed and quality.”

The Ford Ion Park team already is underway. In addition, a \$185 million collaborative learning lab in Southeast Michigan that is dedicated to developing, testing and building vehicle battery cells and cell arrays opens late next year.

This world-class 200,000 sq.-ft. learning lab will include pilot-scale equipment for electrode, cell and array design and manufacturing and will use state-of-the-art technology to pilot new manufacturing techniques that will allow Ford to quickly scale breakthrough battery cell designs with novel materials once the company vertically integrates battery cells and batteries.

Anand Sankaran will lead the Ford Ion Park team as its new director. A 30-year veteran of Ford, Sankaran brings to the new position decades of battery and electrification expertise – including his current role as the company’s director of Electrified Systems Engineering, as a 1999 Henry Ford Technology Award winner for his electrification work at the Ford Research Lab and a product development leader who applied his research and technical innovations on key production vehicles, including the award-winning original Escape Hybrid, 2021 Mustang Mach-E and 2022 F-150 Hybrid.

Sankaran also holds 32 U.S. patents in automotive power electronics and hybrid vehicle technologies and is a fellow of the Institute of Electrical and Electronics Engineers.

“Ford’s modern EV journey started with Escape Hybrid in 2004, the world’s first hybrid SUV, and it continues today – all driven by the inspiration to deliver no-compromise vehicles for a better world,” he said.

The Ford Ion Park team will ensure batteries are optimized for its diverse customers – from daily commuters to performance enthusiasts to commercial vehicle fleet operators.

The team will apply customer insights to optimize battery technologies that deliver the performance and capability truck, utility, commercial vehicle and fleet owners value most. That means creating distinct batteries and technologies to deliver meaningful towing and off-road capability for truck customers as well as stop-and-go driving efficiency for fleet operators in cities worldwide.

### **New lab to support Ford Ion Park development work**

Ford’s new Battery Benchmarking and Test Laboratory in Allen Park, Mich., will help quickly test and identify the right battery cells and chemistries to power Ford’s growing EV lineup to best meet different customers’ needs.

“While some automakers have placed their bets, we are going to use this lab with the help of partners and suppliers to fine-tune our batteries to our vehicles and customer needs – exploring next-generation lithium ion solutions, including solid-state batteries,” Sankaran said.

Ford’s Battery Benchmarking and Test Laboratory, which opened late last year, has 150 test chambers and 325 channels for development work. Experts at the \$100 million, 185,000 sq.-ft. lab already have analyzed more than 150 types of battery cells.

The state-of-the-art lab houses battery cell and pack test rooms, test benches and benchmarking facilities to support battery cell design validation, controls calibration, pack development and pilot battery pack projects with different chemistries. The lab team can replicate the performance of full-scale production batteries under extreme weather and customer use cases, speeding implementation in future vehicles.

## Gaining momentum

Ford this year announced its commitment to invest at least \$22 billion through 2025 to deliver connected, electrified vehicles, building on its areas of strength, starting with EV versions of its most popular nameplates.

In North America, the Ford Mustang Mach-E already has found early sales success. Plus, the all-electric Ford Transit is set to go on sale late this year and the all-electric F-150 arrives by mid-2022.

In Europe, Ford is moving to an all-electric lineup by 2030, with its commercial vehicle range 100 percent zero-emissions capable – all-electric or plug-in hybrid – by 2024. Ford also is investing \$1 billion in a new electric vehicle manufacturing center in Cologne to build a high-volume all-electric passenger vehicle for European customers starting in 2023.

In China, Ford is preparing to produce the Mustang Mach-E for local customers later this year, and recently announced it is establishing a BEV division with a direct sales model and network that will reach 20 major cities across China this year. In addition, Ford has partnered with China's State Grid and NIO to offer EV customers access to more than 300,000 public charging stations, of which 160,000 are fast-charging, in more than 340 cities across the country.

## Proven electrification expertise

Ford has been actively involved in battery research and electric vehicles, starting with Henry Ford and Thomas Edison. To date, the company has secured more than 2,500 U.S. patents in electrification technologies, with another 4,300 patents pending.

Since 2004, Ford has sold more than 1 million hybrids, plug-in hybrids and all-electric vehicles and integrated four generations of batteries into its vehicles. By year-end, the company will be manufacturing electrified vehicles and supporting technologies at more than 15 powertrain and vehicle assembly plants globally.

Ford has assembled hybrid battery packs and electric motors in Michigan since 2012, after making the state its center of excellence for vehicle electrification in 2010.

That same year, Ford invested \$135 million to design, engineer and produce these components for hybrids. It included a combined 170 jobs at the Rawsonville plant to assemble batteries and VanDyke Transmission plant to assemble e-motors, plus hiring more than 50 electric vehicle engineers.

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## About Ford Motor Company

*Ford Motor Company (NYSE: F) is a global company based in Dearborn, Michigan. The company designs, manufactures, markets and services a full line of Ford trucks, utility vehicles, and cars – increasingly including electrified versions – and Lincoln luxury vehicles; provides financial services through Ford Motor Credit Company; and is pursuing leadership positions in electrification; mobility solutions, including self-driving services; and connected vehicle services. Ford employs approximately 186,000 people worldwide. For more information regarding Ford, its products and Ford Motor Credit Company, please visit [corporate.ford.com](http://corporate.ford.com).*

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