

# AUTOMOTIVE RESEARCH AND DEVELOPMENT CENTRE (ARDC) NORTH AMERICAN BATTERY TECHNOLOGY CENTRE



## HISTORY:

- Construction completed in 2025, creating an 8,700 m<sup>2</sup> state-of-the-art battery testing facility.
- Full **24/7 testing operations** commenced in January 2026.
- Team of approximately 34 technicians, engineers, and leaders.
- Part of Stellantis' global battery testing network spanning Canada, Italy, France, and Germany.

## MISSION:

- Advance vehicle electrification through safe, rigorous, reliable, and efficient battery development and validation testing.

## TESTING & ENGINEERING CAPABILITIES:

- Non-destructive validation testing of battery cells, modules, and packs.
- Root cause analysis and engineering support for battery performance and quality investigations.
- Support for Stellantis' global vehicle electrification initiatives.

## FACILITY CAPACITY:

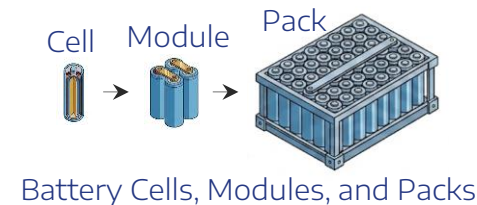
- 35 Battery pack test chambers. Supports up to **63 simultaneous pack tests**.
- 11 Battery cell test chambers. Supports up to **132 simultaneous cell tests**.

## TESTING EQUIPMENT CAPABILITIES:

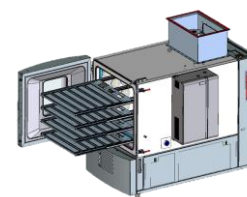
- High-power battery testing up to **1,100 kilowatts per pack test** and 3 kilowatts per cell test.
- Extreme environmental testing from **-40°C to 65°C**.
- High-speed environmental temperature ramp rates up to 20°C/min (pack) and 2°C/min (cell).

## BENEFITS:

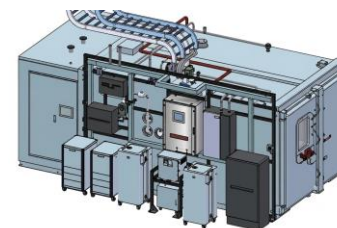
- Validates battery performance, safety, and durability.
- Accelerates product development and time-to-market.
- Improves engineering agility and testing flexibility.
- Builds internal expertise and protects intellectual property.
- Reduces costs and reliance on external testing resources.



Battery Cells, Modules, and Packs



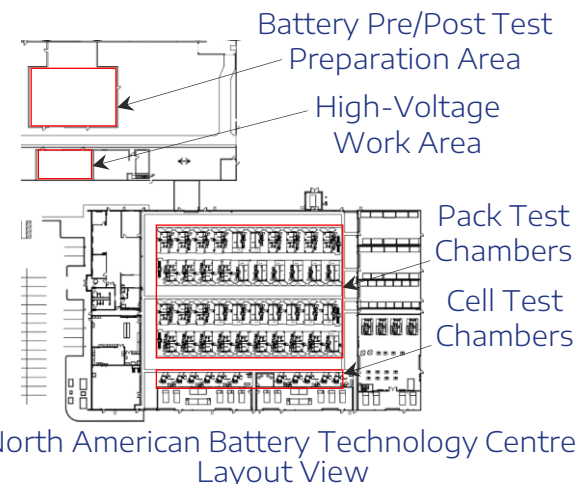
Cell Test Chamber



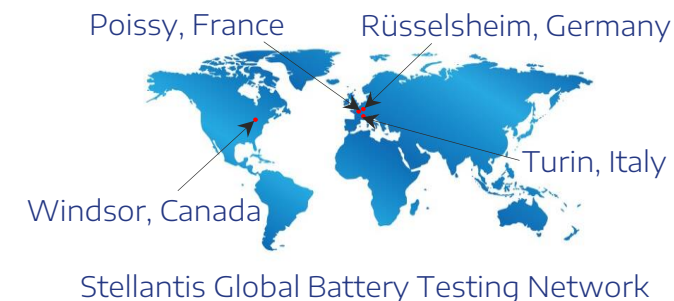
Pack Test Chamber



Battery Pack  
Root Cause Analysis Investigation



North American Battery Technology Centre  
Layout View



Stellantis Global Battery Testing Network