

Battery Abuse Testing Laboratory (BATLab)

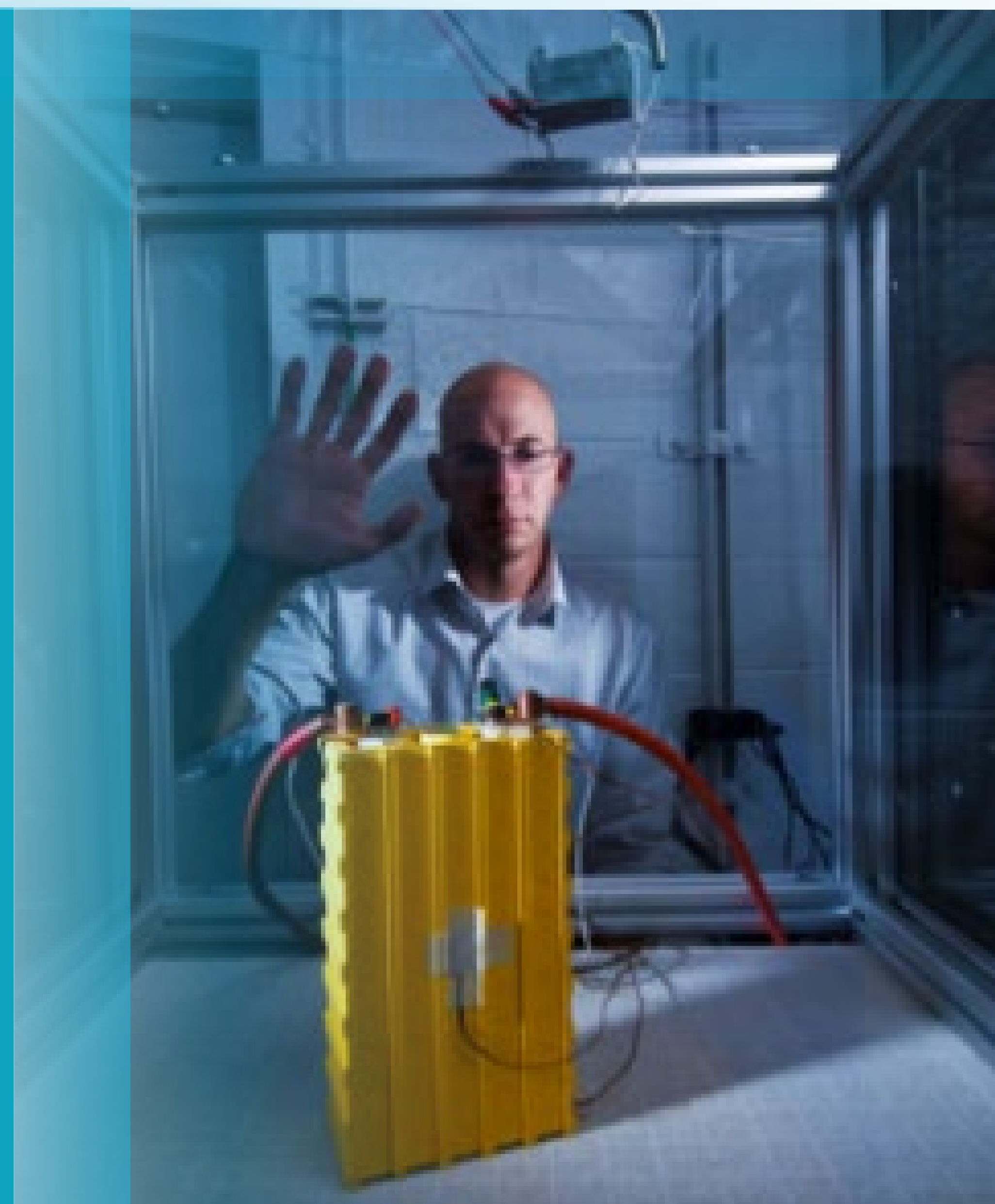
PROVIDING SAFETY TESTING FACILITIES AND DEVELOPING THE TECHNIQUES AND STANDARDS TO MEET THE DEMANDS OF BATTERY MATERIALS AND DESIGN

The Battery Abuse Testing Laboratory (BATLab) at Sandia is an internationally recognized leader in energy storage system safety research. The BATLab is committed to serving the energy storage community and the national interest with cutting-edge research programs, the highest quality testing results, and leadership in battery safety and reliability. Since 1990, the BATLab has supported the U.S. Department of Energy (DOE) Office of Electricity (OE) programs, whose goal is to enable new electric vehicle (EV) technologies. The BATLab also continues to support other DOE, Department of Defense, NASA, and private industry customers.

In addition to core battery abuse testing capabilities, the BATLab is home to the world's largest and most comprehensive battery calorimetry laboratory, battery component analytical and diagnostic capabilities, and extensive failure-analysis and characterization tools.

KEY CAPABILITIES

- Understand abuse and field failure mechanisms and perform detailed failure analyses
- Develop new materials to improve overall energy storage system safety and abuse tolerance
- Perform mechanical, thermal, and electrical abuse testing and develop advanced testing and analytical techniques
- Partner with national and international organizations to establish and vet battery standards



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