

Loraine Torres-Castro, PhD

Dr. Loraine Torres-Castro is a senior member of the Power Sources Research and Development organization within Sandia National Laboratories. She joined Sandia in 2016 where her work has focused on the safety and reliability of batteries, particularly under abusive conditions at the Battery Abuse Testing Laboratory (BATLab). 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. This is achieved by understanding the mechanisms that lead to energy storage systems safety incidents; detailed failure analysis; and developing strategies to mitigate energy storage cell and system failures. Loraine earned his BS in Physics in 2010 and Ph.D. in Chemical Physics in 2016 both at the University of Puerto Rico-Rio Piedras. Her dissertation work focused on the development of cathode materials for high energy lithium-ion batteries.