



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

U.S. Army Research, Development and Engineering Command

U.S. Army Research Laboratory

Power & Energy Technology Areas of Interest

Objective: To provide advance planning information regarding ARL Technology areas of interest. Note: The information provided is not a solicitation, a request for proposal or quotation, an invitation for bids or a broad agency announcement.

Requested Innovation: High energy density conformal batteries

Description: The need for higher energy density (kWh/kg) conformal batteries that can be safely operated while attached to Soldiers.

Technology Areas of Interest:

- Needs to have significantly higher energy density (kWh/kg) than is found in current Li-Ion batteries.
- Power density (kW/kg) needs to be similar to Li-Ion battery power densities.
- Batteries must operate safely when exposed to impact and high temperatures.
- Operation in temperature range of -40 to +70 °C

It is also desirable for the batteries to be conformal and available at low cost.

EDGE Call for Innovation (CFI)

“CFI ARL-Hi Energy/Conformal Batts-006”