

# LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

**Team Name:** Spiers New Technologies A.L.F.R.E.D.

A Public Document

**Primary Submitter:** Bryan Schultz, Vice President of Technology & Engineering, Spiers New Technologies

**City and State:** Oklahoma City, Oklahoma

**Member Names:**

Bryan Schultz: VP, Spiers New Technologies (bryan.schultz@spiersnt.com)

Nick Mould, Director, Spiers New Technologies (nick.mould@spiersnt.com)

Eric Gratz, CEO, Battery Resourcers (egratz@batteryresourcers.com)

**Submission Title:** A.L.F.R.E.D. – Solving the Dilemma of Unlabeled Lithium Ion Batteries

**Submission Track:** Track 2: Separation and Sorting

**Abstract:** (<100 Word)

Spiers New Technologies (SNT) and Battery Resourcers (BR) will partner to address the issue of utilizing non-labeled lithium ion batteries within the recycling stream process. By creating a supermarket style system using known lithium ion battery chemistry compositions from automotive lithium ion battery packs, the two streams can be combined in predetermined mixtures to achieve optimum output material. The SNT Database system A.L.F.R.E.D. will be expanded to enable this process.



Lithium-Ion Battery Recycling Prize

*Supported by the U.S. Department of Energy Vehicle Technologies Office and Advanced Manufacturing Office;  
Administered by the National Renewable Energy Laboratory*