Engineering & Computing

RE-BATTERY:

A CLOSED-LOOP BATTERY RECYCLING

Re-Battery is in the Mechanical and **Materials Engineering** Department at Florida **International University** (FIU) in Miami, Florida

FIU has 95.5% minority Organic Material undergraduate students and the #1 in bachelor degrees granted to Hispanic students

FIU and the team have track record of supporting the underserved local community

Metals Electrolyte Seperation Recovery Anode and Cathode Battery Seperation Shredding **Closed-loop** End-of-Life Removal **Batteries** Recycling Metal Recovery with **Battery Pure Lithium Seperation** Use Cathode **Battery**

Production

Manufacturing

Millions of tons of spent batteries are anticipated to be need proper disposal

An Environmental and economic problem can be turned into opportunity using close—loop recycling

Re-Battery's technology reduced the cost of recycled battery to \$11/kg and \$44/kWh