Composite Anodes with Silicon and Engineered Graphene for Advanced Li-ion Battery

- Characterized commercial cathode materials (LCO, LFP, LMO, NMC)
- Prepared initial full-cell prototype of Si/graphene and LMO materials
  - Improved stability through tailoring of electrolyte mixture
- Developed advanced prototypes with Si/graphene-NMC full cells
  - Enhanced electrochemical stability through cathode selection and cell balancing
- Initiated process scale-up for rapid prototyping of next-gen full-cells

Flexible Si-graphene composite paper; electrochemical performance shown in graphs