






Optimize Battery Development with Science-Based AI

Accelerate Battery Development

Currently, battery development and performance evaluation is time-consuming and resource intensive. The limitations of traditional iterative experimentation prevents engineers from speeding up product cycles.

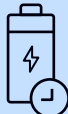
NobleAI creates commercial Science-Based AI solutions by leveraging our unique Science-Infused Neural Network (SINN) cloud-based platform to optimize electrolyte formulations, predict the end of useful EV battery life from limited test data and address other important battery challenges.

-  Battery Electrolyte Formulations for Maximum Performance
-  Charging and Operating Conditions for Maximum Performance
-  Battery Cycle Life
-  Cost by finding alternative materials and chemical components
-  Battery Energy Density

NobleAI Use Cases



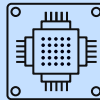
Battery Electrolyte Formulation



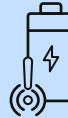
Battery Aging/State of Health



Performance vs. Component Properties



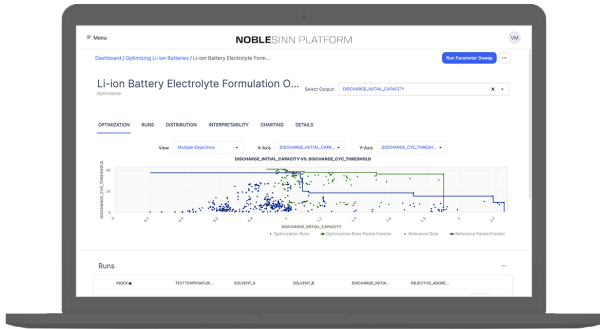
Battery Management Solutions



Battery Safety Prediction

NobleAI's Science-Infused Neural Network Platform

Built on a modern cloud infrastructure, the NobleAI SINN Platform leverages unique Science-Infused Neural Networks that incorporate any available data, scientific principles, and relevant design constraints to accelerate product development for chemists and material scientists.



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| <p>Predictable
Predict Lifecycle, initial capacity, and end-of useful life with early performance data</p> | <p>Highly Data Efficient
Unlock actionable insights with fewer than 100 data points</p> | <p>Scalable
State-of-the-art cloud provisioning system scales quickly across your organization</p> | <p>Iterative
Improves the models' predictive power over time with reinforcing feedback</p> | <p>Quick to Deploy
Your teams can begin unlocking insights in less than a month.</p> | <p>Model Accuracy
Achieve by incorporating scientific principles</p> |
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Contact us today to learn how NobleAI's Science-Based AI solutions can accelerate your project.