Aethorix v1.0 Workflow

LLM

Refine Design

State Problem

Pinpoint Design Principles

Propose Structures

Obtain Optimized Energetics

Derive Emergent Properties

Evaluate Performance

Not Yet

LLM

Structure Generation

Structure Optimization

Physics-Informed Prediction

$\Sigma_n c - 8c$

$\Sigma = p(\times + 4)$

Problem-Solving

Found a Solution?

Yes

Design Novel Formulations   **Tailor Design for Improvement**

Optimize Process Protocols   **Forecast Lifetime Reliability**

Database Sourcing

De Novo Generation

Open-Source Universal Models

In-House Developed Specialized Models

Propose Fine-Tuning Strategies

No

Validated?

Validate in Real Conditions

Prototype Validation

Yes

Solution Deployment