NOBLE AI

Accelerate Food & Beverage Product Innovation:
From Months to Minutes

Practical AI for Complex Ingredient & Formulation Challenges

Traditional development of chemicals, materials, and ingredients is slow, costly, and difficult to scale.

NobleAI delivers practical AI that helps teams move faster and make confident decisions across formulation, sourcing, and regulatory work. Our Science-Based AI models, delivered on the VIP Platform, use scientific principles and data to guide product development with clarity and precision.

+ Identify risky ingredients and suggest safer, compliant alternatives.

+ Enable clean-label and sustainable product development.

+ Optimize formulations for performance, nutrition, cost, and flavor.

+ Stay ahead of fast-changing local and global regulations impacting your products.

+ Accelerate ingredient discovery with fewer lab iterations.

+ Reduce development cycles and testing costs through predictive modeling.

Use Cases for the Food & Beverage Industry

Product Risk Assessment

Ingredient Replacement

Sourcing & Cost Optimization

Sustainable Packaging

Waste & Resource Efficiency

Food Safety Improvement

Many More

About NobleAI

NobleAI delivers practical AI solutions for complex challenges in chemistry and materials science.

Trusted by global enterprises, NobleAI supports diverse use cases across chemstry, materials, and energy, including ingredient innovation in food and beverage.

VIP (Visualization, Insights & Predictions) Platform

Deploy Your Own Models (DYOM)
Run your existing models to accelerate insights, reduce bottlenecks, and enable collaboration.
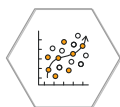
Model Builder for Formulations (MBFF)
Build and train your own SBAI models. No coding or data science expertise needed.

Inverse Designs With Parameter Sweeps
Identify the optimal results based on multiple, predefined goals and constraints.

Forward Prediction With Parameter Sweeps
Generate formulation predictions and run unlimited experiments in software with parameter sweeps.
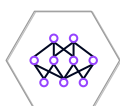
Dynamic Visualization
Visualize and analyze data using customizable data, graphs, and tables.

Deep Insights
Understand predictions through uncertainty, confidence, probability, and feature impacts.

Science-Based AI Models

Ensemble Model Architecture
SBAI Models are built from multiple individually trained model elements.

Customized Solution
SBAI models are structured, created and optimized for each specific use case.

Multi-Science, Multi-Scale
SBAI can incorporate any physical law, chemical property, scientific principle or constraint.

Data Efficiency and Privacy
SBAI models don't need to learn scientific principles from data and are inherently private.

Want to learn more? Let's talk.
contact@noble.ai

www.noble.ai