



*Industrial Applications  
...Concept to Completion*

# BATCH PROCESSING

## **BATCH ENGINEERING, DESIGN, FABRICATION AND COMMISSIONING**

Optimation's broad experience with batch process systems can enable you to achieve your manufacturing goals. Optimation can help you conceptualize, engineer, fabricate, install and commission the appropriate batch process system for your production needs. Our staff of experienced engineers stand ready to assist you in meeting your goals and are experienced in scaling up and optimizing your existing processes to add capacity and grow your business.

Optimation will work with you to meet your production requirements within your existing constraints. Our experience allows us to effectively present options and define decision criteria to facilitate implementation of cost effective, highly robust systems, including the following:

- Custom Skid-Based Systems
- 3D System Design
- Flammable, Hazardous and/or Corrosive Conditions
- Solid and Liquid Reactants Metering and Mixing
- Reactor Design
- Heat Addition and Removal
- Dispersion and Compounding
- Sanitary Applications
- Clean-In-Place
- Pumping Systems
- Liquid and Solids Separation
- Vacuum Systems
- Product Drying
- Validation of Operation

## **BATCH OPERATIONS AND CONTROLS**

Optimation's software, controls, electrical and instrumentation engineers are highly skilled in automating batch processes, as well as implementing appropriate levels of historical data acquisition and statistical evaluation.

Application expertise includes: batch recipe management software, programmable logic controller (PLC) programming, supervisory control and data acquisition (SCADA) and instrumentation specifications.

