

Fine Chemical Design

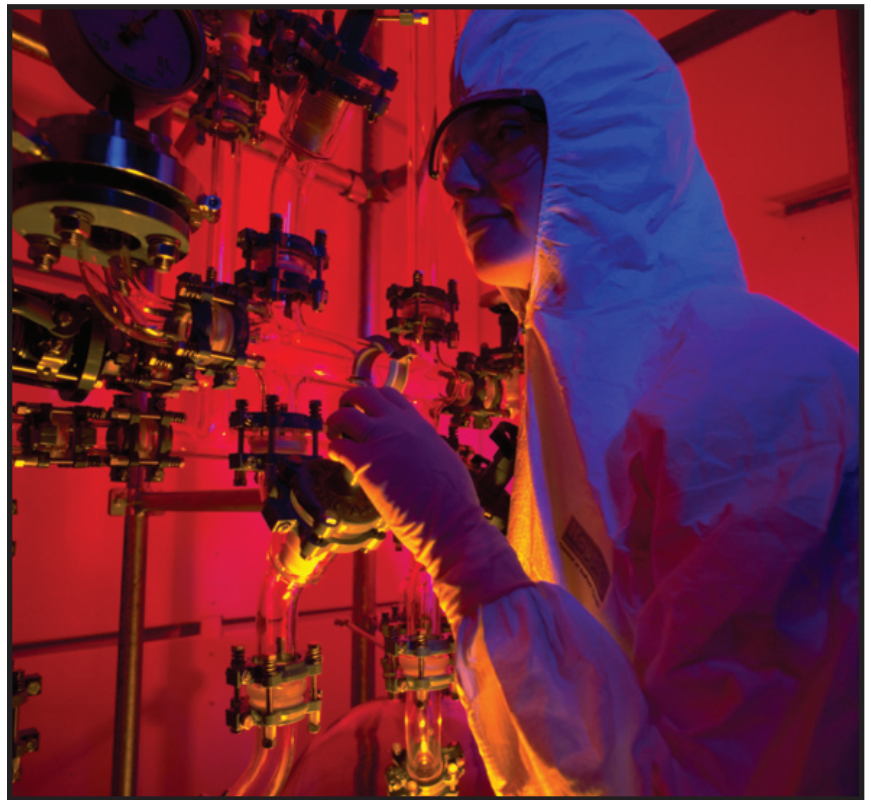
A smooth-running, cost-effective facility gives your company the competitive edge, cutting cycle times and saving money. CRB recognizes that excellence in process engineering is all about making your business a success—so we approach process design with your operating needs in mind.

CRB offers pharmaceutical and fine chemical consulting expertise to its clients. Our chemical engineers are well-trained professionals who know that there are many ways to accomplish any goal. Whether working with a potent compound kilo lab or with a large bulk facility, we take each project seriously, relishing the fact that every project has its own special needs.

The engineers within CRB offer a vast knowledge of experience from the operations side as well as from designing projects for an array of clients in the pharmaceutical, biotechnology and chemical industry. This varied background aids us in meeting the challenges of your project.

“The most important thing in communication is to hear what isn’t being said.”

- Peter F. Drucker



CONSULTING DESIGN CONSTRUCTION COMMISSIONING QUALIFICATION

OUR PROCESS ENGINEERING SKILLS AND SPECIALTIES

Facility and Process Design for the Following Chemical and Process Systems:

- Design for Potent Compound Kilo Labs
- Bulk Pharmaceutical Process
- Specialty Chemical Processing
 - Oligonucleotides
 - Potent Compound Manufacturing
 - Small Molecule Development and Manufacture
 - Chemical and Biological Laboratories
 - Isolation and Purification Processes
 - Multifunctional Process Facilities for Development and Clinical Manufacturing
 - Ultra-high Purity Manufacturing



Process Design

- Batch and Continuous Processes
- Product Recovery and Purification Systems
- Process Development and Scale-up
- Reactor Design and Kinetic Analysis
- Process Equipment and Systems
- Specification and Technical Bid Evaluation
- Redesign of Existing Facilities
- Project Definition and Scope Development
 - Process Development and Scale-up
 - Pilot Plant Design
- Process Economic Analysis
- Piping and Processing
- CIP Systems
- SOP Development



Process Safety Review of Biological and Chemical Facilities and Processes

Safety reviews are not just a means of complying with OSHA's Process Safety Management (PSM) standards, but also a mechanism to provide a safe workplace for employees and visitors, and to prevent accidents which can impact surrounding communities or the environment. CRB provides PSM services including field verifying P&IDs and facilitating and documenting Process Hazard Analysis (PHAs): HAZOPs, "What-if" scenarios, and other forms of safety reviews.

