

For those interested in engineering and/or manufacturing process consulting and service, a summary of areas of expertise FALCONEER has are as follows:

UNIT OPERATIONS

Electrochemistry
Catalysis
Absorption/Desorption
Phase Systems (Inorganic, Organic)
Filtration
Mixing
Blending
Crystallization
Centrifugation
Drying
Solids Material Handling
Solids Bulk Flow
Fluidized Bed Spray Coating
Fluidized Bed Spray Drying
Ion Exchange
Extraction
Catalytic Hydrogenation
Distillation
Packed Bed & Fluidized Bed Reactors
High Pressure / High Temperature Reactors
Low Pressure (High Vacuum) Reactors
Heat Transfer
Process Control & Advanced Process Control
Process Safety Management
Statistical Process Control
Project Management
Incinerators
Boilers
Turbines
Power Co-Generation

PROCESS EQUIPMENT

Riedel Cells
Plate & Frame Cells
Pressurized Candle Filters
Plate & Frame Filters
Bag Filters
Baghouses
Hydrocyclones
Single-Stage & Two-Stage Centrifuges
Draft-Tube Baffle Crystallizers
Forced Circulation Crystallizers
Thermocompressors
Vacuum / Steam Ejectors
Barometric Condensers
Agitators
Static Mixers
Ribbon Blenders
Paddle Blenders

Centrifugal Pumps
Disc Flow Pumps
Peristaltic Pumps
Vacuum Pumps
Fluidized Bed Dryers
Screw Conveyors
Bucket Conveyors
Solids Hoppers
Sweco Screeners
Wurster (Bottom) Spray Coaters
Top Spray Coaters
Packed Ion Exchange Resin Columns
Liquid / Liquid Extraction Columns
Distillation Columns
Fluidized Bed Catalytic Reactors
Packed Bed Catalytic Reactors
Parr High Pressure Reactors
High Vacuum Glass Reactors
High Temperature Quartz Reactors
Heat Exchangers
Multiple Hearth Incinerators
Belt Filter Presses

CONTROL & INFORMATION SYSTEMS / DATA ACQUISITION

Honeywell Distributed Control Systems (DCS)
GE Simplicity DCS
Siemens DCS
Rockwell
Aspen InfoPlus2.1
OPC Systems
Steady State & Dynamic Simulation & Modeling Tools

LAB / ANALYTICAL EQUIPMENT

Microwatt Calorimeter
Thermal Gravimetric Analyzer (TGA)
Differential Scanning Calorimeter (DSC)
Gas Chromatograph / Mass Spectrometer (GC/MS)
Fournier Transform Near Infrared Spectrometer (FTNIR)
Nuclear Magnetic Resonance Spectrometer (NMR)
pH Meters
Titration Equipment
Weigh Scales
Particle Size Laser Analyzers
Particle Size Distribution Sieve Analysis
Optical Microscopy
BET Absorption
Scanning Electron Microscopy (SEM)
Helium Pycnometry
Glass Blowing Equipment