Mech-Chem is a full service engineering and design firm that specializes in the design of acid and chemical processes and operations. The engineering, design, fabrication and construction capabilities and expertise of our company is in the following applications:

**Chemical Processing Systems**
- Acid Etching Systems
- Acid Pickling Systems
- Chemical Milling Systems
- Aluminum Etching Systems
- Aluminum Anodizing Systems
- Metal Processing Operations
- Chemical Recovery Systems

**Acid Recovery and Purification Systems**
- Acid Filtration Systems
- Diffusion Dialysis Systems
- Acid Distillation Systems
- Distillation Fraction Columns
- Single Effect Vacuum Evaporators
- Vapor Compression Evaporators

**Fume Scrubbing Systems**
- Push/Pull Ventilation Systems
- Vertical Fume Scrubbers
- Horizontal Fume Scrubbers
- Hoods and Ductwork
- Exhaust Blowers
- Scrubber PM Services

**Wastewater Treatment and Recycling Systems**
- Wastewater Treatment Systems
- Ion Exchange Resin Systems
- Vacuum Evaporation Systems
- Carbon Filtration Systems
- Zero Discharge Systems

**Bulk Storage Facilities and Piping Systems**
- For: Acids/ Alkalis/ Solvents
- Bulk Storage Tanks
- Pump/Piping Systems
- Double Contained Piping Systems
- Automated Chemical Feed Systems
- Secondary Containments
- Truck Containments
- Safety and Inventory Control

**Process Optimization Services For:**
- Acid Recovery
- Waste Recovery
- Waste Minimization
- Cost Reduction
- Pollution Control
- EPA & OSHA Compliance

Mech-Chem has an extensive library of over four hundred (400) project designs for systems and facilities for the above applications done by our company's engineering staff. We utilize this knowledge and expertise in the design of each new project done by our company. Mech-Chem engineers and designs user friendly fully automated systems and operations that are monitored and controlled by PLCs with PC interface.
Mech-Chem is a full service engineering and design firm that specializes in the engineering, design, fabrication and construction of chemical processes and operations.

Mech-Chem was founded in 1984 specializing in acid and chemical corrosion technologies and process design. Over the last 30 years Mech-Chem has grown to include a network of dozens of professionals including an in-house staff of full-time engineers, designers, and PLC programmers.

Our company’s mission is to design, engineer and build industrial processes and systems that not only meet our clients’ production and manufacturing objectives but also meet their environmental, health and safety goals.

Mech-Chem's knowledge of chemical engineering and processing, along with our industrial experience in the design and start-up of these operating systems, gives us the unique ability to design and build fully integrated systems. This expertise allows us to provide our clients with effective processing systems and operations using the best available technology with state of the art PLC/PC automation and controls.