

# Plant/Facility Engineering

*“Investing in good engineering design upfront, lessens future equipment problems and associated costs.”*

## SERVICES:

- **Plant/Facility Engineering**
  - Chemical Process Assessment and Design
  - Chillers Plumbing and Piping Layout
  - HVAC Design
  - Hydraulic/Pneumatic Design and Control
  - Electro-Mechanical Design and Control
  - Manufacturing Process Requirement Assessment and Design
- **Plant/Facility Compliance**
  - Fire Codes/Building Codes
  - Building Condition Surveys
  - Manufacturing Process Code Classification Issues
- **Process Engineering**
  - Cleaning/Pretreatment
  - Electroplating
  - Surface Coating
  - Composite Materials
  - Process Heating or Cooling
- **Environmental Engineering**
  - Wastewater Treatment
  - Water Reuse and Segregation
  - Air Pollution Control
  - Chemical and Petroleum storage tanks, inspections and assessments
- **Related Services**
  - Energy Management Solutions
  - Indoor Air Quality and Ventilation
  - Auto CAD Drafting
  - Material Handling

## OUR APPROACH:

At Pinnacle, we have experience helping clients solve real-world problems. For over eighteen years, Pinnacle has assisted manufacturing and industrial clientele with process, manufacturing, facilities and environmental issues. Pinnacle can assist you with project concept, system design, specification development, equipment selection, and implementation. By building strong relationships with our clients, and understanding your operations and employees, we become a partner in your business.

## BENEFITS TO YOU:

- Good process design results in significant cost savings by including energy reduction strategies in all projects.
- Proper process design reduces employee exposure to chemicals, reduces excess waste generation and improves your overall business profitability.
- Pinnacle, a full-service engineering firm, provides expertise in a multitude of disciplines, efficiently and cost effectively.



## PINNACLE SOLUTIONS:

- Pinnacle provided all engineering, contractor procurement and construction management services for the complete upgrade and expansion of a major chemical processing facility.
- Pinnacle engineers managed the decommission of product development laboratories for an industrial client - involving condition assessments, contractor selection and management, and clean up and disposal of hazardous industrial waste.
- Pinnacle installed two wastewater treatment systems at a concrete panel manufacturing plant. The systems collected wastewater from wash out and acid etching operations. The water is cleaned and reused for washout prior to discharge to the city POTW. The project was provided on a design/build basis.

