



CLIENTS

AkzoNobel

BASF

Corteva

Dow Inc.

DuPont

Durez

INEOS Nitriles

PPG Industries

PCS Nitrogen Ohio

PQ Corporation

Rhodia

Specialty Minerals

W.R. Grace

Turning your specialty chemical process into production.

SSOE's focus on specialty chemical manufacturers makes us experts at delivering faster, better projects with documented savings for our clients—more than \$100 million to be exact. The difference comes not only from our specialized expertise, but from the way we deliver your project, including a more collaborative approach, a better use of technology, and a full menu of delivery methods—from single discipline design to EPC and Integrated Project Delivery (IPD).

Our size and geographic diversity positions us to provide ongoing maintenance support for smaller projects in addition to execution of your larger capital projects. The result is a team that has been ranked by *ENR* as one of the top providers of design services for over a decade.

TOP 10 CHEMICAL PLANT

Top Chemical Plant Design Firm for the past two years (ENR)



\$109M COST SAVINGS

More than \$109 million in documented savings to chemical clients since 2009



EXPERTS

PUBLISHED & PROVEN

Our experts have been published in Chemical Processing, Area Development, and Manufacturing.net





"SSOE has been our primary engineering firm to design highly complex chemical processes in a series of major expansions. Our chemical processes are very challenging, requiring novel and conventional engineering solutions. SSOE has performed exemplary work and...has demonstrated a high degree of skill in all of the core engineering disciplines for chemical plant design."

Plant Director, Confidential Specialty Chemical Manufacturer



PROJECT TYPES

We specialize in projects ranging from \$1 million to \$100 million total installed cost. In addition, we've demonstrated the capability to respond to long-term programs with a cost of \$100 million to upwards of \$500 million.

Performance Materials, Metals, Graphite, Paints / Coatings / Resins / Adhesives, and Catalysts

- Unit operations experience with reactions, separations, mixing, and extrusion
- High temperature furnaces, calciners, and dryers
- High purity chemical production, storage, and distribution
- Solid, liquid, and gas bulk material handling for demanding conditions



TECHNICAL SPECIALTIES

- · 3D CAD modeling
- Batch processing
- · Blast resistant structures
- · Commissioning and start-up
- Continuous processing
- Environmental permitting and reporting
- Front-end conceptual engineering and studies
- Hazardous / flammable material storage and handling

- · Industrial wastewater treatment
- · Metals finishing / plating
- Packaging
- · P&ID development
- PLC and HMI programming
- · Process equipment specification
- · Process hazard reviews
- Process instrumentation and controls

- Process piping design and pipe stress analysis
- Procurement and construction support
- Project management and project controls (scheduling, cost estimating)
- Systems integration and control system upgrades
- · Turnaround expertise
- · Utilities and infrastructure
- Vessel, tank, and pump sizing