

Need Basic Engineering Data for Chemical Operations?

CECON assembles teams of experts to develop basic technology packages needed to design and build chemical operations. We work with engineering firms to complete the final engineering design, P&IDs, procurement, construction, and start-up.

Typical Deliverables

- Process flow diagrams
- Raw material specifications
- Equipment specifications & selection
- Heat and mass balances
- Process simulation modeling
- Regulatory compliance assessments
- Utility needs and flow diagram
- Waste product characterization & treatment
- Early design stage process hazard reviews
- Patent review and selection
- Plant testing and test method protocols

Cecon Advantages

- **Chemicals expertise.** CECON was founded in 1985 by DuPont chemists and chemical engineers and has an extensive network of consultants with chemical process knowledge.
- **Experienced staff can find you the right consultant.** Each staff member has over 25 years of industry experience and can understand your technical needs.
- **Able to assemble multi-disciplined teams of experts.** Our network includes over 200 technical disciplines. We can form a comprehensive team for complex issues.

Recent U.S. and International Projects

Coating Equipment - U.S. Chemical and mechanical engineers created unique processes for coating proprietary materials.

PTFE Technology - Russia Team of three defined the basic process and chemistry to manufacture a 9,000 mT/yr fluoropolymer.

Biochem Plant - China Assessment of low productivity amino acid plant.

Polymer Plant Basic Data - China Assembled chemical engineering data using Aspen process simulation for a 50k mT/yr engineering polymer manufacturing plant.

Coal Gasifier Reactor - U.S. Developed basic engineering and operation of Fischer-Tropsch coal gasifier reactor.

Inorganic Carbonate - Middle East Developed the basic engineering data and process to manufacture an inorganic carbonate.

Coal Syngas - China Petroleum mechanical and metallurgy specialists delivered full-scale reactor design and catalyst recovery packages for coal syngas feed stream.

Vinyl Chloride & Polyvinyl Chloride - South America Manufacturing design assistance for vinyl chloride monomer and polyvinyl chloride



Science and Engineering Consulting Network

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