

**John Chemical Engineer**  
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**EDUCATION** MS – Chemical Engineering, 1974: Rutgers University, New Brunswick, NJ  
BS – Chemical Engineering, 1971: Rutgers University, New Brunswick, NJ

**SUMMARY** Over 20 years experience in engineering, including:

- Extensive experience in **process engineering and development** and **equipment design**.
- Designed numerous plants, pilot plants, and provided process improvements and modifications for **chemical, petrochemical** and **pharmaceutical** plants.

**EXPERIENCE** **ABC Company** **Somewhere, NJ**

6/03 – present: Process Engineer

- Responsible for the preparation of process design calculations, economic studies, and evaluations for proposals, and for the preparation of process and engineering flow diagrams, instrument and equipment specifications, and process hazard analysis.
- Process design for expansion and debottlenecking of a batch type reactor system producing esters for lubricants for Mobil Chemicals.
- Process design, safety upgrade, and emission control of a batch type resin plant for BASF.
- Process design of a hydrocracker unit and isodewaxer unit to produce lube product for a Southeast Asian client.
- Process design of a diluent recovery unit for a grass-roots project to develop extra heavy oil fields in Jose, Venezuela.
- Assisted Hess Oil Virgin Islands Corporation in performing process hazard analyses of several refinery units at St. Croix, U.S. Virgin Islands.
- Simulated a delayed coker gas plant and checked the adequacy of existing equipment in the gas plant for a new feed to the coker unit.
- Process design of a main fractionator and a gas plant for the residue catalytic cracking unit for Shell Oil Company.

**DEF, Inc.** **Somewhere, NJ**

4/02 – 5/03: Senior Process Engineer (contract position through Engineering Resource Group)

- Designed polypropylene plant. P&IDs and specification of equipment.

**GHI Corp.** **Somewhere, NJ**

3/01 – 8/01: Sr. Process Engineer (Contract position through Engineering Resource Group)

- Selected solvent abatement processes for a pharmaceutical plant in Ireland.
- Specified process for carbonated beverage production and water purification by reverse osmosis.

**JKL Corp.** **Somewhere, NJ**

1988 – 2001: Senior Process Design Engineer

- Supervised process design for chemical, polymerization, petrochemical, and pharmaceutical plants, and design of processes based upon client technology.
- Supervision and design of Polysiloxane plants (continuous polymerization).
- Process design of batch Esterification plants (15000 gal. reactors).
- Process design of multipurpose batch reactors.
- Process design of multi function batch pharmaceutical plants and pilot plants.
- Supervision and design of continuous blending systems for vitamin C plant.

**MNO Corp.** **Somewhere, NJ**

1983 – 1988: Consulting Engineer

- Managed process development including laboratory and pilot plant scaleup experiments leading to data for plant design.
- Process design calculation, economic studies and evaluations, flow diagrams, and equipment specifications.
- Pilot plant and plant design for biochemical processes. Technologies include aspartic acid, L phenylalanine/alanine plants, organic synthesis, fermentation and purification.
- Design of multipurpose pilot plant for organic synthesis and polymerization.
- Design pilot plant for medical devices made of partially hydrolyzed polyacrylonitrile.
- Process design of pharmaceutical plant for slow release transdermal drug production.

**PQR Corp.**

**Somewhere, NJ**

1974 – 1983: Process Engineer

- Process analysis and development, equipment design and design of experiments at laboratory and pilot plant scales.
- Process design of various petrochemical plants, including formaldehyde, maleic anhydride and benzoic acid plants.
- Yield study and process improvements of salicylic acid and methyl salicylate plants, including phenol recovery system.
- Process studies and improvements in stearates plant (wet process).
- Process design of high vacuum distillation system for chlorinated aromatics and of crystallization (hexamethylenetetramine), evaporation, & thermocompressors.