Many Chemical Engineering Career Paths

- R & D (Academic, Industrial, Governmental)
- Process and Equipment Design
- Project Engineering
- Plant Operations, Maintenance, Controls and Instrumentation
- Plant Environmental, Safety and Health Monitoring
- Equipment Design, Fabrication And Sales
- Small Companies Such As Cosmetic And Chemical Blenders
- Legal sector (Patent Matters, Plant Guarantees, Arbitration)
- Financial Sector
  - (Debt & Equity Providers, M & A Projects, Insurance Companies)
- Regulatory Agencies (EPA, DECs, Local)
- Municipal Departments (DEP/Water, Education, Hospitals, City Planning, etc.)
- Technical Writing/Reporting

Possible Career Impacts resulting from Climate Change
-- Increased Needs for Expertise

- Safe Production of Non-Crop Based Liquid Bio-Fuels
- Electric Generation without Fossil Fuels
- Carbon Capture & Safe Long-Term Sequestration
- Water Quality Evaluation and Treatment
- Food Production and Distribution Technology
- Recycling Technology (Water, Process Streams, Discarded Products)
- Materials Selection and Fabrication
- Instrumentation and Automation
- Project Realization
- Process Design, Project Financing, Environmental Permitting
- Technology Transfer (Particularly to Developing Countries!)
**Representative Organizations That Employ Chemical Engineers**

### Plant, Infrastructure & Water Treatment Design
- Arcadis
- Burns & Roe
- CB&I Lummus (fm. ABB Lummus)
- CB&I Howe Baker
- CH2M Hill Lockwood Greene
- Foster Wheeler
- General Electric
- Hazen and Sawyer
- Pall Corp.
- Parsons Brinckerhoff
- Siemens
- Stone & Webster, Inc.

### Bio-Pharmaceuticals
- Amgen
- Baxter International
- Bayer Schering Pharma AG
- Celgene
- CSL Behring
- Gilead Sciences
- Merck KGaA
- Novo Nordisk
- Sanofi S.A.
- Teva Pharmaceutical Industries

### Pharmaceuticals & Personal Products
- Bayer Schering Pharma AG
- Bristol-Myers Squibb
- Colgate-Palmolive Co.
- Consumer Products
- Estée Lauder Companies
- GlaxoSmithKline
- Hoffmann-La Roche Inc.
- Merck & Co.
- Novartis Pharmaceuticals Corp.
- Pfizer, Inc.
- Procter & Gamble
- Warner-Lambert Co. (now part of Pfizer, Inc.)

### Oils/fuels/lubricants
- Akzo Nobel N.V.
- British Petroleum
- Chevron
- ConocoPhillips (fm. Tosco, Bayway Refining)
- ExxonMobil
- Halliburton

### Chemicals
- Air Products and Chemicals, Inc.
- Ashland Inc.
- BASF Corp.
- BOC Gases (now part of Linde Gases)
- Dow Corning Corp.
- DuPont - E.I. Du Pont de Nemours & Co.
- Hercules (now part of Ashland Inc.)
- ITT Corp. (fm. ITT Water - now Xylem)
- KMG Chemicals
- Lonza
- Olin Corp.
- Scott Specialty Gases, Inc. (Air Liquide)
- Catalyst Vendors:
  - Johnson Matthey, Haldor Topsoe, Nalco

### Food/Beverage
- Archer Daniels Midland Co.
- Mars, Inc. (makers of M&M / Mars candies)
- Molson Coors Brewing Co.
- Mondelēz International (fm. Kraft Foods)
- Monsanto Co.
- Nabisco (sub of Mondelēz International)
- Nestlé S.A.
- PepsiCo
- Pinnacle Foods Inc.

### Utilities
- Con Edison
- KeySpan (now part of National Grid USA)
- National Grid USA
- PASNY - Power Authority of the State of N.Y.
- PSEG - Public Service Enterprise Group
- TransCanada Corp.

### Government Services (for NYC)
- Dept of Env. Protection (DEP)
- Met. Transportation Authority (MTA)
- OLTTPS - Office of Long-Term Planning and Sustainability
- Regulatory
  - NYC Dept. of Env. Protection (DEP)
  - NYS Dept. of Env. Conservation (DEC)
  - NYS Public Service Commission (PSC)

### Consulting
- CH2M Hill
- Malcolm Pirnie, Inc. (now part of Arcadis)
- NanoBiz, LLC
- Poten & Partners

### Legal, Insurance, & Other
- Chartis Insurance (now part of AIG)
- Greenberg Traurig LLP
- Sills, Cummins & Gross P.C.
- Underwriters Laboratories

### Technical Writing/Reporting/Editing
- Chemical Engineering Progress (CEP)
- McGraw-Hill, Inc.

### Research Facilities
- Brookhaven National Laboratory
- Metro NY Area Engineering Schools

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