

CHEMICAL

ENGINEER





CHEMICAL ENGINEER

<http://www.fusiongrant.org/educational.php>

Description:

Typically, a chemical engineer designs chemical plant equipment and devises processes for manufacturing chemicals and products to be used in applications relating to the physical and life sciences. He or she performs laboratory studies of the manufacturing processes of new products and tests them in pilot plants (small scale production).

Median Wage (as of 2005):

\$79,320

Level of Education:

A.A.S., B.S., on-the-job training

Job Outlook (through 2010):

4.1% increase in number of jobs

Examples of Colleges & Affiliated Programs:

Cornell University – Chemical and Biomolecular Engineering; Biology; Chemistry; Material, Mechanical, or Electrical Engineering

Keuka College – Chemistry; Mathematics; Physics

Rochester Institute of Technology (RIT) – Chemistry; Engineering

Employers:

Colleges & Universities – Rochester Institute of Technology (RIT); Cornell University; New York State Agricultural Experiment Station

Private Sector – Infotonics Technology Center, Inc.; Eastman Kodak, Inc.; Dow Chemical Co.; Dupont; Exxon Mobil; 3M, Gillette; Austin Allen Co.; The Carpenter Co.; Texas Instruments; Aerotek

Federal Government – FDA; Department of Defense; Department of Homeland Security

High School/College Courses to Take:

Science – Chemistry, Organic Chemistry, Physics, Biology

Technology, Engineering – Process, Materials, Mechanical, Electrical
Environmental Studies

Mathematics – Geometry, Algebra, Calculus, Statistics, Biometrics



Cornell University