



Chemistry is called the central science because of its pervasive influence on all aspects of life and because it links together all the other natural sciences. Chemistry is essential to the understanding of the physical world and its living systems. The chemistry program thus aims to enhance technical and problem-solving skills in an exciting and central area of scientific knowledge. Chemists apply the scientific method to study the composition and properties of matter. They play a fundamental role in the development of such fields as industry, medicine, biochemistry and genetic engineering. Chemists are key personnel in petroleum refineries and environmental firms, working together with other scientists and engineers.



### Possible Career Options

- Forensic Scientist
- Analytical Chemist
- Environmental Chemist
- Health and Safety Officer
- Biomedical Scientist
- Forensic Chemist
- Food and Drug Analyst
- Researcher
- Professor
- Biochemist



## Possible Employers

- Petrochemical Industries
- Consultants
- Chemical Industries
- Police Laboratories
- Colleges and Universities
- Governmental Organizations
- Biomedical Laboratories
- Genetic Engineering Firms
- Pharmaceutical Industries
- Plastic and Petroleum Companies
- Food and Pharmaceutical Industries
- Consulting Firms



## Skills Required

- Interest in chemistry, mathematics and physics
- Comprehensive knowledge of chemical theories and practices
- Ability to plan and develop research models using computers
- Ability to communicate and work well with people
- Ability to organize, analyze, understand and interpret numerical data
- Ability to think analytically and scientifically
- Ability to solve problems
- Ability to use logic and scientific thinking to deal with different types of problems
- Ability to make sound judgments and decisions
- Ability to creatively solve quantitative problems
- Ability to communicate well orally and in writing
- Ability to use information obtained from the chemical literature and the web



## Personal Attributes

- Achievement-oriented
- Capacity for detail and order
- Analytical and logical thinking
- Desire for precision
- Interest in laboratory work
- Integrity
- Creativity
- Interest in working with data, numbers and formulas
- Creativity
- Mathematical reasoning
- Inductive and deductive reasoning
- Resourcefulness
- Organized and confident
- Independent thinking



## Ways to Get Experience

- Doing an internship
- Attending scientific lectures, workshops or conventions
- Joining professional chemical societies
- Working part-time at a school or university chemistry department