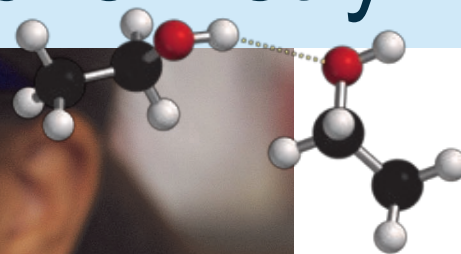


Department of Chemistry & Biochemistry



Core Disciplines

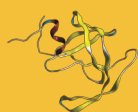
Analytical: emphasis is on determining chemical composition of samples.

Biochemistry: emphasis is on characterizing biomolecules (e.g. proteins, nucleic acids, carbohydrates) and determining their biological function.

Inorganic: emphasis is on synthesis, reactivity and analysis of materials in which elements other than carbon play the key roles.

Organic: emphasis is on structure, properties, and reactivity of carbon-based molecules.

Physical: emphasis is on the mathematical basis for chemical phenomena.



General Facts on Employability

Chemistry is a practical field with a broad range of career possibilities. Salaries depend on degree earned and level and type of experience. Within 2-4 years of graduating with a BS or BA degree, the median salary for chemists is \$42,000, with the lowest and highest 10% earning \$31,000 and \$53,000 respectively. At the other extreme, within 25-30 years of obtaining a PhD, the median chemist's salary is \$104,000, with the lowest and highest 10% earning \$67,000 and \$170,000 respectively. While chemists with different degrees may work on the same projects together, a higher degree (PhD vs. MS vs. BA) allows greater autonomy & responsibility. Unemployment rates in chemistry are typically below 2%.

Fields Related to Chemistry:

Aerospace
Pharmaceuticals
Agricultural
Cosmetic
Energy
Biotechnology
Public Health

Food
Textile and Fashion
Forensics
Environmental Concerns
Alternative Fuels
Advertising
Information Technology

Careers Related to Chemistry:

Pharmacist
Physician
Veterinarian
Educator
Dietician
Chemical Engineer
Journal Editor
Scientific Consultant
Neuroscientist
Communications
Pathologist
Investment Banker
Food and Drug Inspector
Toxicologist
Engineer
Museum Curator
Government Advisor
Librarian

Pharmacologist
Dentist
Researcher
Criminologist
Geneticist
Industrial Hygienist
Book Publisher
Film Consultant
Aesthetician Visual
Ophthalmologist
Inventor
Nutritionist
Food and Drug Analyst
Patent Examiner Ceramic
Lawyer
Art Conservationist
Pyrotechnician
Federal Agent