

# WHAT CAN I DO WITH A MAJOR IN... CHEMISTRY AND BIOCHEMISTRY

## Possible Career Options

(some career areas require advanced education)

Agricultural Scientist  
Anesthesiologist  
Biochemist/Molecular Biologist  
Chemical Engineer  
Chemist  
Clinical Specialist  
Color Development Chemist  
Cosmetics  
Crime Lab Analyst  
Dentist  
Education  
Entomologist  
Environmental Engineer  
EPA Inspector  
Fire Protection Engineer  
Food Scientist/Technologist  
Forensic Chemist  
General Surgery Resident  
Geochemist  
Geologist  
Hydro Geologist  
Hydrologist  
Industrial Hygienist  
Metallurgical Engineer  
Microbiologist  
Oceanographer  
Occupational Therapist  
Optometrist  
Patent Agent  
Pharmaceutical Sales Representative  
Pharmacy Technician  
Physician  
Physical Therapist  
Product Development Manager  
Psychiatrist  
Radiologist  
Research Analytical Chemist  
Research Associate  
Science Laboratory Technician  
Senior Compounder  
Senior Lab Technician  
Senior Product Chemist  
Soil Scientist, Agriculture  
Toxicologist  
Veterinarian  
Water Purification Chemist  
Water/Wastewater Plant Operator

## Leadership/Management

- Identifying the critical issues and making decisions quickly and accurately
- Ability to do self-directed work
- Managing time, energy and resources effectively
- Organizing, analyzing, conceptualizing
- Possesses strong mathematical background

## Communication/Writing Skills

- Comprehending written material
- Writing factual material clearly and concisely
- Describing objects or events with a minimum of factual errors
- Demonstrating premises and reasoning to their conclusion
- Summarizing

## Research/Analytical Skills

- Sorting data and objects
- Applying information creatively to solve specific problems
- Understanding and using organizing principles
- Manipulate information using expertise in mathematics
- Perceiving and defining cause and effect relationships
- Designing an experiment, plan or model that systematically defines a problem

## Artistic/Creative Skills

- Illustrating, displaying, creating two or three dimensional images
- Visualizing spatial relationships

## Other Skills

- The use of conceptual models

# WHAT CAN I DO WITH A MAJOR IN... CHEMISTRY AND BIOCHEMISTRY

## Web Resources

### Online Career Resources

*Occupational Outlook Handbook*

<http://www.bls.gov/>

*The Career Project*

<http://www.thecareerproject.org>

### Internship Online Resources

*Local Internships*

<http://hope.joinhandshake.com>

*Non-local Internships*

[www.internships.com](http://www.internships.com)

### Employment Opportunity Online Resources

*Chemistry Jobs*

[www.chemistryjobs.com](http://www.chemistryjobs.com)

*Science Careers*

[www.sciencecareers.org](http://www.sciencecareers.org)

*Science Jobs*

[www.sciencejobs.com](http://www.sciencejobs.com)

More resource links are available  
at the Career Development Center website:

[www.hope.edu/student/career](http://www.hope.edu/student/career)

## Professional Associations

### American Chemistry Council

[www.americanchemistry.com](http://www.americanchemistry.com)

### American Chemical Society

[www.acs.org](http://www.acs.org)

### American Institute of Chemists

[www.theaic.org](http://www.theaic.org)

### American Nuclear Society

[www.ans.org](http://www.ans.org)

### American Society for the Advancement of Science

[www.aaas.org](http://www.aaas.org)

### American Society of Biochemists and Molecular Biology

[www.asbmb.org](http://www.asbmb.org)

### Association of Analytical Chemistry

[www.aoac.org](http://www.aoac.org)

### National Institute of Health

[www.nih.gov](http://www.nih.gov)

### National Science Foundation

[www.nsf.gov](http://www.nsf.gov)

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## Hope Graduates in the Chemistry World

Analytical Chemist.....	Eli Lilly and Company
Anesthesiologist.....	Inova Alexandria Hospital
Associate Chemist .....	GlaxoSmithKline
Beam Physicist.....	Michigan State University
Biochemist .....	Agilent Technologies
CEO.....	Trimech Solutions
Chairman/CEO .....	IdeaSphere, Inc.
Chemical Engineer .....	NASA
Chemist .....	General Motors
Chemistry Group Leader—Neuroscience .....	Abbott Laboratories
Chief Engineer.....	The Boeing Company
Doctor of Internal Medicine.....	Mayo Clinic
Endodontist.....	Madison Endodontic Associates
Energy Analyst.....	Energetics, Inc.
Epidemiologist & Data Manager.....	Michigan Department of Community Health
ER Physician.....	Mercy Memorial Hospital
Forensic Scientist.....	Michigan State Police
Head of Biomedical Sciences.....	Colorado State University
Health Care Administration .....	New York State
Industrial Hygienist .....	Pfizer
Laboratory Manager .....	Oakland University
Lab Technician.....	Fathom
Medical Representative—Pharmaceutical Sales .....	Merck
Medicinal Chemist .....	Wyeth
Oceanographer.....	AUTEC
Optometrist .....	Veld Vision Center
Organic Chemist.....	EDI Engineering & Science
Orthopedic Surgeon.....	University of Virginia
Patent Agent.....	Dow Chemical
Pediatric Dentist.....	Health Partners
Pharmacist .....	Rite Aid
Physician Assistant .....	Duke University Medical Center
Physical Therapy.....	Michiana Orthopaedic & Sports Physical Therapy
President & CEO .....	Blue Cross/Blue Shield of Massachusetts
Production Chemist .....	Lumigen, Inc.
Quality Control Chemist.....	First Priority
Research Associate (Cancer Biology) .....	Amgen Inc.
Research Chemist .....	BP Amoco
Research Environmental Chemist.....	U.S. Geological Survey
Research Lab Assistant.....	Great Lakes Scientific
Senior Analytical Scientist.....	Gentex Corporation
Senior Research Scientist.....	Wyeth Ayerst Pharmaceuticals
Surgeon.....	Michigan Medical, PC
Technical Service.....	Perrigo
Toxicologist .....	U.S. Environmental Protection Agency
Vice President of Medical Affairs .....	ADVANTAGE Health Plan