

# FWHAT CAN I DO WITH MY CHEMISTRY/BIOCHEMISTRY DEGREE?



## Using the Major Sheet:

- Large headings indicate **industry** area and subheadings indicate **employers** within that area.
- Use the titles to search for careers and related careers in order to explore your options within different areas of industry. Note that some career titles have multiple names for similar positions.
- An asterisk (\*) notes that additional training (certification, graduate school, high level of experience) may be needed in order to obtain this career. Make sure to thoroughly research career pathways.

## RESEARCH / MANUFACTURING

### **Pharmaceutical Co., Government/University Labs, Biotechnology Firms, Agricultural Chemical Co., Materials/Polymer Development Co., Oil Co., Textile Manufacturers, Food Co.**

- Lab Research Assistant
- Associate Chemist
- Research Technician
- Crime Lab Assistant
- Product Developer
- Quality Control Technician
- Analytical Chemist
- Fiber Technologist
- Patent Examiner
- Biotechnologist
- Lab Technician
- Clinical Technician
- Drug Application Reviewer
- Petroleum Research Asst.
- Materials Scientist

## PUBLISHING / INFORMATION

### **Corp. Libraries, Publishing Co. Technical Division, Chemical Co., Newspapers**

- Technical Information Specialist
- Scientific Journalist
- Indexer of Periodicals
- Media Reference Editorial Assistant
- Scientific Illustrator
- Assistant Editor
- Technical Writer
- Science Text Sales Rep.
- Abstractor
- Information Specialist
- Promotions Assistant
- Document Analyst
- Copy Editor
- Researcher

## MARKETING / SALES

- Herbicide/Pesticides
- Chemicals
- Abrasives
- Technical Service Rep.
- Marketing Research Analyst
- Lab Equipment
- Photographic Supplies
- Biomedical Products
- Customer Service Rep.
- Pest Control Services
- Pharmaceuticals/Drugs
- Polymer/Petroleum
- Water Treatment

## ENVIRONMENTAL SCIENCES

### **National/State Parks, Chemical Co., Contract Labs, Hazardous Materials/Waste Management Co., Government, Universities**

- Air/Water Quality Control Technician
- Volunteer Coordinator
- Recreation Planner
- State Parks & Recreation Worker
- Energy Conservation Technician
- Environmental Technician
- Hazardous Waste Manager
- Nature Interpreter
- Regulatory Affairs Specialist
- Natural Resource Manager
- Environmental Inspector
- Pollution Control Technician
- Lab Technician
- Park/Forest Ranger
- Documentation Specialist
- Tour Guide/Educator
- Conservation Officer
- Environmental Analyst

## EDUCATION

- Public Health Educator
- Peace Corps Volunteer
- Zoo/Wildlife Educator
- Environmental Educator
- College Professor
- Technical Institute Educator
- Science Teacher
- Research Coordinator

## HUMAN RESOURCES

- Technical Recruiter
- Technical Trainer
- Personnel

## **NON-PROFITS - RESEARCH / POLICY**

- Community/Field Organizer
- Membership Coordinator
- Grant Writer
- Project Manager
- Program Developer
- Lobbyist
- Research Associate
- Political Organizer
- Project Assistant

## **HEALTH**

### **Healthcare Providers**

- Physician
- Podiatrist
- Dentist
- Pharmacist
- Optometrist
- Veterinarian

### **Hospitals, Insurers, Non-Profits**

- Insurance Customer Service Rep.
- Hospital Public Relations Assistant
- Medical Technologist
- Medical Admissions Staff
- Medical Lab Technician
- Clinical Lab Specialist
- Patient Advocate
- Public Health Worker
- Rehabilitation Specialist

## **INSURANCE**

- Claims Representative/Examiner
- Insurance Agent
- Underwriter

## **SPECIALIZATION**

### **Graduate/Professional School**

- Healthcare
- Food Sciences
- Analytical Chemistry
- Geochemistry
- Chemical Biology
- Pharmacology
- Cosmeceutical
- Biochemistry
- Inorganic Chemistry
- Quantum Computing
- Agricultural Chemistry
- Forensics
- Chemical Engineering
- Materials Science
- Polymer Chemistry

### **Preparation for a Competitive Job Market:**

- **Focus on transferable skill sets**, as you pursue a degree in Chemistry/Biochemistry.
- **Obtain relevant internship, co-op, or volunteer experiences.**
- **Supplement Chemistry/Biochemistry coursework** with **classes** that are **relevant** to your career.
- **Meet with a Career Specialist** to explore options, make decisions, and prepare for career choices.

### **Additional Career Center Resources:**

- **Major Sheets (BIOC, BIOL, BTEC, ENCH, CHEM):** ) : <https://careers.umbc.edu/tools/majors/>
- **Firsthand:** <https://careers.umbc.edu/firsthand/>
  - Log in and/or create an account
  - Use the top search bar to find these relevant guides:
    - “Vault Guide to Chemistry Jobs”
    - “Vault Guide to Pharmaceuticals and Biotechnology Jobs”
    - “Vault Guide to Health Care Provider Jobs”
    - “Vault Guide to Environmental Science and Conservation Jobs”
    - “Vault Guide to Government Jobs”
- **Professional Associations:**
  - American Chemical Society: <http://www.acs.org/content/acs/en.html>
  - American Society for Biochemistry and Molecular Biology: <http://www.asbmb.org/>
  - National Association of Science Writers: <https://www.nasw.org/>
  - The National Academies of Sciences, Engineering and Math: <http://www.nationalacademies.org/>
  - Society of Chemical Industry: <http://www.soci.org/>
  - Biophysical Society: <http://www.biophysics.org/>
- **Additional Resources:**
  - UMBC PreMedical and PreDental Advising Office: <http://premed.umbc.edu/>
  - American Chemical Society Job Board: <http://chemistryjobs.acs.org/jobs/>