

# WHAT CAN I DO WITH MY BIOLOGICAL SCIENCES 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.

## BIOTECHNOLOGY

### **Pharmaceutical Companies, Government Labs, Biotechnology Firms**

#### ***Research & Development***

- Lab Assistant
- Plant Breeder
- Research Associate
- Pest Control Researcher
- Media Prep Technician

#### ***Quality Control***

- Env. Health & Safety Specialist
- Food & Drug Inspector
- Quality Control Lab Supervisor
- Validation Engineer
- Quality Control Lab Tech.
- Clinical Quality Assurance
- Quality Control Analyst
- Quality Analysis Technician

#### ***Clinical Research***

- Clinical Coordinator
- Technical Writer
- Clinical Data Specialist
- Research Associate
- Clinical Research Associate
- Data Management

#### ***Manufacturing and Production***

- Production Planner Scheduler
- Food Technologist
- Manufac. Research Assoc.
- Process Development Assoc.
- Crop Production Specialist

#### ***Regulatory Affairs***

- Regulatory Affairs Specialist
- Crime Lab Analyst/Technician
- Documentation Specialist
- Public Health Inspector
- Patent Examiner
- Case Examiner

## GENETICS

### **Universities, Government Labs, Pharmaceutical/Agricultural Institutions**

- Genetics Lab Technician
- Research Assistant
- Genetic Research Tech.
- Lab Assistant

## MICROBIOLOGY

### **Universities, Private Research Labs, Environmental Agencies/Organizations, Hospitals, Food/Chemical Companies**

- Quality Assurance Technologist
- Brewery Lab Assistant
- Research Assistant
- Asst. Microbiologist
- Medical Technologist
- Brewing Technologist

## ZOOLOGY / MARINE & AQUATIC SCIENCES

### **National/State Parks, Animal Preserves, Zoos, Govt., Museums, Universities**

- Wildlife Resource Worker
- Animal Technician
- Volunteer Coordinator
- Animal Trainer
- Veterinary Assistant
- Game Warden
- Lab Technician
- Aquarium Worker
- Tour Guide/Educator
- Kennel/Shelter Manager
- Animal Control Officer
- Park Ranger
- Fish Hatchery Technician
- Animal Education Specialist
- Veterinary Technician
- Fish/Wildlife Technician

## ENVIRONMENTAL SCIENCES

### **National/State Parks, Government, Universities, Environmental Non-Profits**

- State Parks & Rec Worker
- Park/Forest Ranger
- Tour Guide/Educator
- Environmental Inspector
- Conservation Officer
- Volunteer Coordinator
- Recreation Planner
- Energy Conservation Tech.
- Pollution Control Technician
- Excursion Guide
- Nature Interpreter
- Natural Resource Manager
- Landscape Consultant
- Environmental Technician

## **EDUCATION**

- Public Health Educator
- Environmental Educator
- Science Teacher

## **HUMAN RESOURCES**

- Technical Recruiter
- Human Resources Generalist
- Technical Trainer

## **MARKETING / SALES**

- Veterinary Supplies
- Horticultural/Nursery Products
- Pharmaceutical Products
- Medical Equipment
- Safety Equipment
- Dental/Medical Supplies
- Lab Equipment
- Customer Service Rep.
- Pest Control Service
- Surgical Appliances
- Marine Products/Equipment
- Marketing Research Analyst

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

### **Policy Organizations (Issue-Oriented / Non-Profit / National Associations)**

- Community/Field Organizer
- Membership Coordinator
- Meetings Coordinator
- Project Manager
- Program Developer
- Lobbyist
- Fundraiser
- Political Organizer

### **Research Organizations (Issue-Oriented / Non-Profit / National Associations)**

- Project Assistant
- Research Associate

## **HEALTH**

### **Medical/Healthcare Professions**

- Physician
- Podiatrist
- Occupational Therapist
- Dentist
- Pharmacist
- Physical Therapist
- Optometrist
- Veterinarian

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

- Insurance Customer Service Rep.
- Medical Research Technician
- Physical Therapy Aide
- Nuclear Medicine Technologist
- Medical Admissions Staff
- Medical Lab Technician
- Biomedical Equipment Tech.
- Medical Technologist
- Patient Advocate
- Cytotechnologist
- Public Health Clinician
- Clinical Lab Specialist

## **PUBLISHING**

- Book/Subscription Salesperson
- Science Reporter
- Assistant Editor
- Technical Writer
- Promotions Assistant
- Writer - Trade Publication

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

- **Focus on transferable skill sets**, as you pursue a degree in Biological Sciences.
- **Obtain relevant internship, co-op, or volunteer experiences.**
- **Supplement Biological Sciences course work 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 (BIOI, BIOC, BTEC, MEES, MOCB):** <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 Biology and Life Sciences Jobs”
    - “Vault Guide to Health Care Provider Jobs”
    - “Vault Career Guide to Health Care Management”
    - “Vault Career Guide to Pharmaceuticals and Biotechnology”
    - “Vault Guide to Pharmaceuticals and Biotechnology Jobs”
    - “Vault Guide to Government Jobs”
    - “Vault Guide to Dental Care Jobs”
- **Professional Associations:**
  - American Society for Microbiology: <http://www.asm.org/>
  - Society for Industrial Microbiology and Biotechnology: <http://www.simhq.org/>
  - American Institute for Biological Sciences: <https://www.aibs.org/home/index.html>
  - National Association of Science Writers: <https://www.nasw.org/>
  - Association of Clinical Research Professionals: <http://www.acrpnet.org/>
- **Professional/Graduate School Resources:**
  - UMBC PreMedical and PreDental Advising Office: <http://premed.umbc.edu/>
  - National Association of Graduate and Professional Students: <http://nagps.org/>