

BIOLOGICAL SCIENCES

What can I do with this degree?

AREAS

EMPLOYERS

STRATEGIES

BIOTECHNOLOGY

Research and Development
Laboratory Testing
Teaching

Colleges and universities
Pharmaceutical companies
Agricultural industry including fertilizer manufacturers and animal and plant breeding and production
Federal and state government laboratories and agencies
Industry, particularly biotechnology firms

Develop excellent laboratory skills.
Acquire a Ph.D. for college and university teaching and advanced positions in research, development, and management.
Take additional courses in science and mathematics.
Learn to problem solve.
Develop work habits that are systematic, precise, and patient.

MICROBIOLOGY

Research
Teaching
Production
Quality Control

Colleges and universities
Professional schools of medicine, dentistry, public health, nursing, pharmacy, veterinary medicine, and agriculture
Private research foundations
Government research laboratories and service agencies
Hospitals and public health facilities
Agricultural experiment stations
Food, chemical, pharmaceutical, and cosmetic companies
Industry including wood products, paper, textiles, optical equipment, leather, and electrical equipment
Environmental and pollution control agencies

Obtain a Ph.D. for teaching and advanced research and management positions.
Take additional courses in chemistry, biology, mathematics, and physics.
Take courses related to your field of interest such as botany, plant pathology, etc.
Obtain specialized certification for some medical areas.
Develop necessary eye-hand coordination.
Learn to work well with others.

AREAS	EMPLOYERS	STRATEGIES
<p>MARINE AND AQUATIC BIOLOGY</p> <ul style="list-style-type: none"> Food Research Inspection Teaching 	<ul style="list-style-type: none"> Federal, state, and local agencies International agencies Inspection organizations Private recreation organizations Research laboratories Colleges and universities Zoos Armed services Shipping industry Manufacturing Fish hatcheries and organizations raising fish 	<ul style="list-style-type: none"> Develop a good foundation in mathematics, computer science, statistics, and humanities. Acquire a Ph.D. for college and university teaching and advanced research and management positions. Obtain experience related to fishing and boating. Specialize in fisheries science.
<p>BIOMEDICAL (Graduate Program only)</p> <ul style="list-style-type: none"> Physiology Biophysics Biochemistry Pharmacology Nutrition Immunology Pathology Research Teaching Quality Control Engineering 		
<p>EDUCATION</p> <ul style="list-style-type: none"> Teaching Non-classroom education 	<ul style="list-style-type: none"> Public and private schools, K-12 Museums Zoos Nature centers Parks 	<ul style="list-style-type: none"> Certification is required for public school teaching positions. Gain experience working with students through tutoring or volunteering. Learn to work well with all types of people. Develop excellent interpersonal and public speaking skills.
<p>TECHNICAL AND PHARMACEUTICAL SALES</p>	<ul style="list-style-type: none"> Manufacturing firms including pharmaceuticals, animal pharmaceuticals, laboratory equipment, medical supplies and prostheses 	<ul style="list-style-type: none"> Develop excellent communication and interpersonal skills. Take courses in anatomy, pharmacology, and chemistry. Obtain retail or sales experience. Acquire a minor in business. Hold leadership positions in campus organizations. Join the student American Marketing Association.

AREAS	EMPLOYERS	STRATEGIES
<p>LEGISLATION/LAW Lobbying Regulatory Affairs Science Policy Congressional Fellows</p> <p>Patent Law Environmental Law</p>	<p>Federal and state government</p> <p>Law firms Large corporations</p>	<p>Acquire internships in federal or state government. Develop excellent communication and interpersonal skills. Acquire a Ph.D for more opportunities.</p> <p>Earn a law degree.</p>

GENERAL INFORMATION

- A bachelor's degree will qualify one for work as a laboratory assistant, technician, technologist, or research assistant. These individuals work as part of a team performing practical operations, e.g., operating laboratory equipment, designing and constructing new equipment, making drawings, building models and assisting in the interpretation of results.
- The biological sciences are good preparation for a career in healthcare including medicine, dentistry, nursing, etc.
- An undergraduate degree can be used for nontechnical work in writing, illustration, sales, photography, and legislation.
- Graduate degrees allow for more responsibility and advancement.
- Some work environments, particularly medical, require special certification.
- Learn laboratory procedures and become familiar with equipment.
- Obtain summer, part-time, volunteer, co-op, or internship experience.
- Complete various training courses working with laboratory equipment and procedures to enhance job skills and abilities.
- Join professional associations and community organizations to enhance knowledge, abilities and contacts in the field. Read scientific journals.
- Maintain a high grade point average to improve chances of graduate school admission.
- Complete an undergraduate research project.
- Secure strong personal recommendations from professors or employers.
- Plan on completing a post doctoral experience after graduate school.
- Learn federal, state, and local government job application process. The federal government is the largest employer of biologists.