



# What Can I Do with a Major in...

## Biology

### Possible Career Options

(some career areas require advanced education)

Agricultural Scientist  
Agronomist  
Anesthesiologist  
Animal Research Technician  
Aquarium Technician  
Bacteriologist  
Biochemist  
Bioengineer  
Biotechnologist  
Botanist/Zoologist  
Chemist  
Dentist  
Ecologist  
Embryologist  
Entomologist  
Environmental Engineer  
Environmental Health Specialist  
EPA Inspector  
Epidemiologist  
Ergonomist  
Forensic Serologist  
Forest Supervisor  
Genetic Engineer  
Horticulture Scientist  
Marine Biologist  
Marine Mammal Trainer  
Medical Illustrator  
Medical Researcher  
Medical Technologist  
Microbiologist  
Molecular Biologist  
Oceanographer  
Pharmacist  
Pharmacologist  
Physical Therapist  
Physician  
Physiologist  
Psychiatrist  
Radiologic Technologist  
Radiologist  
Soil Conservationist  
Toxicologist  
Veterinarian  
Wildlife Biologist

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Career Development Center)

### Leadership/Management Skills

- Applying data
- Analyzing
- Identifying the critical issues and making decisions quickly and accurately
- Analyzing the behavior of self and others in a group
- Operating scientific equipment
- Possessing proficiency for accurate details
- Organizing and maintaining accurate records

### Communication/Writing Skills

- Writing factual material clearly and concisely
- Writing effectively describing objects or events with a minimum of factual errors
- Listening objectively
- Summarizing
- Oral and poster presentations

### Research and Analytical Skills

- Sorting data and objects
- Organizing and classifying
- Evaluating information against appropriate standards
- Perceiving and defining cause and effect relationships
- Applying appropriate methods to test the validity of data
- Troubleshooting sources of error in consistency

### Artistic/Creative Skills

- Aware of the value of symbolism
- Designing and or using audio-visual aids
- Designing methods to solve problems

### Additional Skills

- Using computers
- Doing detailed and accurate work
- Measurement instrumentation
- Working on groups; task sharing

## Print and Web Resources

### OCS Books

*Alternative Careers in Science*

*Careers for Animal Lovers and Other Zoological Types*

*Careers In Science*

*Guide to Non-traditional Careers In Science*

*Opportunities in Biological Science Careers*

*Put Your Science to Work: The Take-Charge Career Guide for Scientists*

*To Boldly Go: A Practical Guide for Scientist*

### Online Career Resources

*Career Information*

[www.careercornerstone.org/biology/biology.htm](http://www.careercornerstone.org/biology/biology.htm)

*Occupational Outlook Handbook*

[www.bls.gov/oco/ocos047.htm](http://www.bls.gov/oco/ocos047.htm) (Biological Scientist)

[www.bls.gov/oco/ocos046.htm](http://www.bls.gov/oco/ocos046.htm) (Ag. Scientist)

[www.bls.gov/oco/ocos048.htm](http://www.bls.gov/oco/ocos048.htm) (Conservation Scientist)

[www.bls.gov/oco/ocos076.htm](http://www.bls.gov/oco/ocos076.htm) (Veterinarian)

[www.bls.gov/oco/ocos168.htm](http://www.bls.gov/oco/ocos168.htm) (Animal Care)

### Internship Electronic Resources

*After College*

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

*Idealist and Action Without Borders*

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

*Local Internships*

[www.hope.edu/knowhope/internships/index.cgi](http://www.hope.edu/knowhope/internships/index.cgi)

### Employment Opportunity Electronic Resources

*Agriculture Information*

[www.agricultureb2b.com](http://www.agricultureb2b.com)

*Biology Jobs*

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

*Science Careers*

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

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

**More resource links are available at the Office of Career Services website:**

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

## Professional Associations

**American Association of Cancer Research**

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

**American Association of the Advancement of Science**

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

**American Institute of Biological Sciences**

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

**American Medical Association**

[www.ama-assn.org](http://www.ama-assn.org)

**American Society for Cell Biology**

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

**American Society for Microbiology**

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

**American Society of Animal Science**

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

**American Society of Plant Biologists**

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

**Botanical Society of America**

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

**Ecology Society of America**

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

**Genetics Society of America**

[www.genetics-gsa.org](http://www.genetics-gsa.org)

**National Institute of Health**

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

**National Science Foundation**

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

**Society for Ecological Restoration International**

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

**Society for Neuroscience**

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

**Society of Integrative and Comparative Biology**

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

**Society of Toxicology**

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

## Hope Graduates in the Biology World

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Animal Behavior Specialist.....	Discovery Cove
Biologist .....	U.S. Department of Agriculture
Chairman/CEO .....	IdeaSphere Inc.
Director of Biological Sciences.....	Pfizer Inc.
Director of Operations .....	Ferro Pfanstiehl Labs
Director of Regulatory Affairs.....	GlaxoSmithKline
Doctor of Internal Medicine.....	Mayo Clinic
Ecologist .....	University of Wisconsin
Environmental Educator.....	Shedd Aquarium
Health Care Administrator.....	Ohio State University Medical Center
Health Care Administrator.....	New York State
Health Lobbyist .....	American Academy of Ophthalmology
Industrial Hygienist .....	Pfizer
Laboratory Manager.....	Oakland University
Medical Illustrator.....	Cooper Hospital
Microbiologist .....	NSF International—Ann Arbor
Microbiologist .....	Merck
Oceanographer.....	AUTECH
Optometrist.....	Veld Vision Center
Orthopedic Surgeon.....	University of Virginia
Patent Agent.....	Dow Chemical
Pharmaceutical Sourcing Manager.....	Perrigo Company
Pharmacist .....	Rite Aid
Physician Assistant .....	Duke University Medical Center
President and CEO .....	Blue Cross/Blue Shield of Massachusetts
Principal Biostatistician.....	Bristol-Myers/Squibb
Production Supervisor .....	Stryker Instruments
Registered Dietician .....	Lapeer County Health Department
Research Technician.....	Kellogg Biological Station
Scientist (Research).....	The Boeing Company
Senior Research Scientist.....	Wyeth Ayerst Pharmaceuticals
Statistician .....	Brookfield Zoo
Statistician .....	Abbott Laboratories
Team Coordinator, Radio Biology Research.....	Federal Aviation Administration
Toxicologist.....	Eastman Kodak Company
Toxicologist.....	U.S. Environmental Protection Agency
Veterinarian in Public Health.....	Centers for Disease Control & Prevention
Vice President of Medical Affairs .....	ADVANTAGE Health Care Plan
Wildlife Biologist .....	State of Michigan
Wildlife Photographer.....	National Geographic
Zookeeper.....	Montana