



# CAREER OPPORTUNITIES FOR BIOLOGY & LIFE SCIENCE MAJORS

## SKILLS & ABILITIES OF THE BIOLOGY & LIFE SCIENCE MAJOR

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### Investigation

- Inspecting specimens
- Assessing risks
- Defining expected/potential results
- Identifying problems
- Cataloging information

### Analysis

- Evaluating effects of phenomena
- Making projections from data
- Examining components of problems/ideas
- Reasoning logically
- Categorizing data

### Research

- Defining problems
- Organizing ideas/information
- Conducting studies
- Designing experiments
- Recording observations
- Using computers for simulation

### Quantitative

- Preparing statistical reports
- Utilizing statistical tests to predict outcomes
- Determining probabilities
- Applying scientific concepts to problems
- Interpreting results
- Utilizing laboratory equipment

## POTENTIAL CAREERS

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### Business and Industry

- Biochemist\*
- Pharmaceutical Sales Representative
- Industrial Hygienist\*
- Retail Manager
- Bioengineer\*
- Trainer
- Molecular Biologist\*
- Food Technician/Technologist
- Technical Writer
- Journalist

- Physician\*
- Medical Illustrator
- Epidemiologist\*
- Genetic Engineer\*
- Health Policy Consultant\*
- Data Analyst\*
- Administrator, HMO\*
- Medical Librarian\*
- Medical Technologist\*
- Dentist, Dental Hygienist\*
- Optometrist\*
- Pharmacist\*
- Physiologist\*

### Medicine and Health

- Toxicologist
- Veterinarian\*
- Biostatistician\*
- Bacteriologist\*

### Environmental

- Park Naturalist
- Ecologist

- Marine Biologist
- Botanist
- Zoologist
- Fundraiser, environmental organization
- Entomologist
- Conservationist
- Curator, botanical gardens

- Hunger Policy Analyst
- Water Quality Inspector
- Aquarist
- Park Ranger
- Food and Drug Inspector\*
- City Recycling Manager\*
- Administrator, Nuclear Waste Program\*
- Teacher
- Professor\*

#### **Government and Public**

- Public Health Officer\*

*\*Additional graduate study is generally expected for those occupations marked with an \* on the above list.*

#### **TYPES OF EMPLOYERS**

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- Business and Industry
- State and Federal Government
- Self-Employed
- State and National Parks
- Zoos
- Nature Centers
- Schools
- Colleges and Universities
- Non-Profit Organizations
- Science Museums
- Aquariums
- Health-Care Centers

#### **ADDITIONAL RESOURCES**

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- [Xavier University Biology Department](#)
- [Xavier University Pre-Health Advising](#)
- [National Science Foundation](#)
- [O\\*NET OnLine](#) has detailed descriptions of the world of work

Sources: College Board Book of Majors 2014, [www.onetonline.org](http://www.onetonline.org), The College Majors Handbook (Fogg, Harrington, & Harrington, 2012)