BOTANY
What can I do with this degree?

**AREAS**
- Anatomy
- Biochemistry
- Biophysics
- Cytology
- Ecology
- Genetics
- Molecular Biology
- Morphology
- Paleobotany
- Physiology
- Systematics/Taxonomy

**EMPLOYERS**
- Research organizations
- Colleges and universities
- Museums
- Botanical gardens and arboreta
- U.S. Department of Agriculture branches including: Medical Plant Resources Laboratory, Germplasm Resources Laboratory, Animal and Plant Health Inspection Service, National Arboretum, U.S. Forest Service
- Federal agencies including: Departments of Interior and State, U.S. Public Health Service, National Aeronautics and Space Administration, the Smithsonian Institution, and Environmental Protection Agency
- State agencies
- Ecological consulting companies
- Industries including petrochemical, chemical, and lumber and paper
- Companies including pharmaceutical, food, seed and nursery, fruit growers, biological supply houses, and biotechnology firms
- Environmental and biotechnical regulatory agencies

**STRATEGIES**
- Obtain Ph.D. for teaching and advanced research positions.
- Conduct undergraduate research project.
- Learn high-technology techniques.
- Learn federal and state government job application process.

**APPLIED PLANT SCIENCE**
- Agronomy
- Biotechnology
- Breeding
- Economic Botany
- Food Science and Technology
- Forestry
- Horticulture
- Natural Resource Management
- Plant Pathology

- College and universities including Departments of Agriculture
- Research organizations
- Agriculture industry including: lumber and paper, seed and nursery, fruit and vegetable growers, fermentation, food industry and biological supply houses
- Biotechnology firms

**Strategies**
- Take courses or double major in area of interest.
- Learn foreign language for international work.
- Obtain Ph.D. for teaching, advanced research positions, and administration.
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<th>AREAS</th>
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<td><strong>Applied Plant Science, Continued</strong>&lt;br&gt;Industries including: petrochemical, pharmaceutical and chemical&lt;br&gt;Ecological consulting companies&lt;br&gt;Federal, state and local government agencies&lt;br&gt;Environmental and biotechnical regulatory agencies</td>
<td><strong>Applied Plant Science, Continued</strong>&lt;br&gt;Learn federal, state and local government job application process.</td>
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<td><strong>RESEARCH</strong></td>
<td><strong>Biotechnology</strong>&lt;br&gt;Genetics&lt;br&gt;Cell Membrane&lt;br&gt;Colleges and universities&lt;br&gt;Research organizations&lt;br&gt;Agricultural organizations&lt;br&gt;Federal government&lt;br&gt;Related industries</td>
<td><strong>Pursue graduate degrees for advanced positions.</strong>&lt;br&gt;<strong>Develop excellent research and high-technology skills.</strong>&lt;br&gt;<strong>Learn federal government job application process.</strong>&lt;br&gt;<strong>Gain related work experience.</strong></td>
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<td><strong>ORGANISMIC SPECIALITIES</strong>&lt;br&gt;Bryology&lt;br&gt;Lichenology&lt;br&gt;Microbiology&lt;br&gt;Pteridology&lt;br&gt;Mycology&lt;br&gt;Phycology&lt;br&gt;Colleges and universities&lt;br&gt;Research organizations&lt;br&gt;Federal and state government laboratories including Agriculture, Health, etc.&lt;br&gt;Pharmaceutical companies&lt;br&gt;Food and beverage industries including brewing and fermentation&lt;br&gt;Hospitals&lt;br&gt;Related industries</td>
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<td><strong>Learn high-technology techniques.</strong>&lt;br&gt;<strong>Become familiar with laboratory procedures and equipment.</strong>&lt;br&gt;<strong>Obtain graduate degree in area of interest.</strong></td>
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<td><strong>EDUCATION</strong></td>
<td><strong>Teaching</strong>&lt;br&gt;Research&lt;br&gt;Administration&lt;br&gt;Colleges and universities&lt;br&gt;Museums, botanical gardens and herbaria&lt;br&gt;Non-profit organizations</td>
<td><strong>Need master's degree as a minimum for most areas.</strong>&lt;br&gt;<strong>Obtain Ph.D. for positions in college teaching, research and advanced administration.</strong></td>
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<td><strong>WRITING</strong></td>
<td>Publishing companies including newspapers, magazines, books and textbooks&lt;br&gt;Professional associations&lt;br&gt;Scientific and educational software companies&lt;br&gt;Non-profit organizations</td>
<td><strong>Take courses in technical writing.</strong>&lt;br&gt;<strong>Develop computer skills.</strong>&lt;br&gt;<strong>Obtain master's degree in scientific journalism.</strong></td>
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### AREAS
- **LAW**
  - Agricultural
  - Environmental
  - Biotechnological
- **MARKETING AND ADMINISTRATION**
  - Sales
  - Marketing
  - Administration
  - Management
- **ILLUSTRATION**
- **COMPUTER PROGRAMMING**
- **GENERAL INFORMATION**

### EMPLOYERS
- **LAW**
  - Legal firms with environmental focus
  - Government agencies and regulatory agencies
  - Biotechnical regulatory firms or agencies
- **MARKETING AND ADMINISTRATION**
  - Pharmaceutical houses
  - Seed companies
  - Biotechnology firms
  - Scientific publishers
  - Biological supply houses
- **ILLUSTRATION**
  - Scientific publishers
  - Colleges and universities
  - Educational and scientific software companies
  - Non-profit organizations
- **COMPUTER PROGRAMMING**
  - Scientific and educational software companies

### STRATEGIES
- **Obtain law degree.**
- **Complete minor in business.**
- **Take double major or minor in illustration.**
- **Take double major or minor in computer programming.**

**GENERAL INFORMATION**
- Bachelor’s degree qualifies for laboratory technician or technical assistant positions in education, industry, government, museums, parks, and botanical gardens.
- Master’s degree qualifies for some research and administrative positions.
- Ph.D. required for advanced research and administrative positions, college teaching and independent research.
- Obtain part-time, summer, co-op, volunteer, internship experience with government agencies, college/university labs, agricultural experiment stations, freshwater and marine biological stations, or private companies.
- Extremely helpful to arrange undergraduate research project to decide on specific area of interest in Botany.
- Enjoy outdoor activities.
- Join organizations directed to concern for world food supply and other related areas.
- Develop excellent mathematics and verbal and written communication skills.
- Select broad range of courses in English, social sciences, arts and humanities.
- Become proficient with computers.