What can I do with a Major in **Agricultural Biotechnology**?

### Skills Developed

- Able to Work in a Laboratory
- Accuracy and Precision
- An Aptitude for Social Science & Agriculture
- Communication
- Computer Knowledge
- Critical Thinking
- Detail Oriented
- Interest in the life sciences (i.e. Biology, Physics, Chemistry & Mathematics)
- Interpret Facts & Figures
- Leadership
- Logical Thinking
- Meet Deadlines
- Observant
- Organizational
- Problem Solving
- Research
- Self-Motivated
- Teamwork
- Willing to Work in Rural Areas & Production Plants
- Work Independently

### Work Environments

Biotechnology is at the root of growth in several technological and academic areas in industry and science. Graduates of this program work in a wide variety of organizations such as agribusiness firms, nature centers, forestry services, departments of agriculture or natural resources, wildlife organizations, food processing companies, agricultural magazines and websites, newspapers and other public relations, provincial and federal parks, non-profit organizations, or commercial venues dealing with farm products, fertilizers, agricultural chemicals and seeds. A Bachelor of Science in Agricultural Studies or Agricultural Biotechnology also provides an excellent foundation for studies in Management, Medicine, Environmental Law, or Veterinary Sciences.
Key Areas of Specialization:
Plant Biotechnology, Crop Production, Agricultural Engineering, Enzymology and Molecular Biology, Plant Hormone Production, Water Toxicology, Beef Processing in Canada, Pest Control, Animal Science, Agronomy, Entomology, Horticulture, Environmental Science

Entry Level Job Titles

These jobs are normally intended for new graduates and require 0 to 2 years of experience. It is important to note that many entry level positions require some related experience or demonstrated ability to perform job-related tasks. Even those positions that do not require experience will still prefer an experienced candidate, if one is available.

- Agricultural Research Assistant
- Agriculture/Environmental Research Coordinator
- Associate Grain Marketing Advisor
- Associate Production Supervisor
- Development & Licensing Associate
- Field Research Assistant
- Field Trial Compliance Associate
- Parent Seed Agronomist
- Production Intern
- Research Associate
- Seed Production Trainee
- Summer Production Assistant
- Summer Resource Technician
- Summer Field Technician
- TD Agriculture Services Associate
- Vegetation Coordinator
- Vegetation Crew Leader
- Vegetation Management Field Assistant

Note: The U of L offers various resources and programs to facilitate students in gaining work and volunteer experience. Find an entry level position on the CES job board or join the Management or Arts & Science Cooperative Education Programs. Summer jobs, part-time work, internship positions and volunteer experience help students to enhance their skillset and accumulate work experience for their future career.

Related Job Titles

These jobs generally require extensive, relevant work experience and/or further education.

- Aerologist
- Agricultural Commodity Inspector
- Agricultural Engineering
- Agricultural Technician
- Agronomic Research Associate
- Agronomist
- Air Quality Specialist
- Analytical Chemist
- Animal Breeder
- Animal Health Technologist
- Animal Science
- Animal Services Worker
- Application Support Specialist
- Aqua-culturist
- Arborist
- Assistant Research Professor
- Associate Production Planner
- Biochemist
- Bioethicist
- Bioinformatics Specialist
- Biologist
- Biologist Application Maintenance
- Biologist Application Support
- Biological Science Technician/Technologist
- Biosafety/Biosecurity Officer
- Botanist
- Biological Technician
- Biostatistician
- Biotechnologist
- Cellular Biologist
- Crop Agronomist
- Entomologist
- Environmental Scientist
- Farm Consultant
- Field Scientist – Crop Protection
- Field Trial Coordinator
- Food Inspector
- Food Science Technologist
- Food Scientist
- Forester
- Forestry Technician
- General Agricultural Biotechnology Advisor
- General Agricultural Business Manager
Thinking Outside the Box: Other Possible Job Titles

On average, people change their career three to five times in their lifetime. So, no matter what major you choose, you may still be interested in opportunities totally unrelated to your program of study. We encourage you to be open to all possibilities! Your undergraduate degree can be a springboard for other educational pursuits, and your transferable skills and experience can prepare you to work in a multitude of settings.

- Agricultural/Farm Equipment Technician
- Audit Services
- Business Insight & Analytics Manager
- Cartographer
- Chemical Technologist
- Clinical Coordinator
- Conservation Officer
- Crime Scene Investigator
- Dairy Producer
- Documentation Specialist
- Ecologist
- Economist
- Environmental Consultant
- Environmental Economist
- Epidemiologist
- Exploration Geophysicist
- Explosives Specialist
- Forensic Laboratory Analyst
- Geological & Geophysical Technologist
- Geologist
- GIS Specialist
- Hazardous Waste Management Technologist
- Hydrometric Technician & Technologist
- Land Agent
- Land Surveyor
- Livestock and Poultry Producer
- Manufacturing Technician
- Market Research Analyst
- Marketing Advisors
- Microbiologist
- Operation Research Analyst
- Patent Administrator
- Pathologist
- Pet Groomer
- Pharmacologist
- Physical Sciences Technician/Technologist
- Pollution Control Technician
- Pricing Officer/Manager
- Private Investigator
- Programmer Analyst
- Public Administration
- Sales Consultant
- Sales Representative
- Senior Buyer/Planner
- Senior Formulation Chemist
- State Affairs Manager
- Water Treatment Plant Operator
- Water & Wastewater Operator
- Wildlife Technician

- Grain Inspector
- Horticulturist
- Immunologist
- Junior Technical Lead
- Lab Technician/Technologist
- Landscape and Horticultural Technicians/Specialists
- Life Sciences
- Manufacturing Technician
- Meat Inspector
- Medicine
- Nursery/Greenhouse Grower
- Pest Management & Biocontrol
- Pesticide Residue Scientist
- Platform Design Lead
- Plant Ontology Lead
- Plant Pathology
- Plant Sciences Recruitment Officer
- Poultry Inspector
- Product Delivery Customer Advocate
- Product Manager
- Production Coordinator
- Project Leader
- Quality Assurance Auditor
- Quality Control Analyst
- Rangeland Evaluation & Management
- Research Assistant/Technician
- Research Entomologist Waterman
- Resource Economist
- Seed Production Technician
- Staff Scientist
- Bioinformatics
- Staff Software Engineer
- Swine Technologist
- Taxidermist
- Toxicologist
- Tree Care Specialist
- Test Engineer
- Tree Harvester
- Vegetable Inspector
- Veterinary Technician
- Waste & Compost Management
- Water Resource Management

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Useful Resources

Recommended websites to assist in exploring the field of Agricultural Studies and its career opportunities.

Alberta Agriculture & Rural Development’s Green Certificate
http://www.agric.gov.ab.ca/greencertificate

Alberta Environment and Sustainable Resource Development
http://esrd.alberta.ca/

Alberta Agriculture and Rural Development
http://www.agric.gov.ab.ca

Industrial Vegetation Management Association of Alberta (IVMAA)
http://www.ivmaa.com

4-H-Canada
http://www.4-h-canada.ca/core/

Alberta Institute of Agrologists (AIA)
http://www.albertaagrologists.ca

Agriculture Institute of Canada (AIC)
http://www.aic.ca

Canadian Society for Horticultural Science
http://www.cshs.ca

Canadian Agricultural Human Resource Council
http://www.cahrc-ccrha.ca/

Canadian Society of Animal Science
http://www.csas.net/

Canadian Food Inspection Agency (CFIA)
http://www.inspection.gc.ca

Canadian Society of Agronomy
http://www.agronomycanada.com

Canadian Seed Growers’ Association
http://www.seedgrowers.ca

Association of Canadian Faculties of Agriculture & Veterinary Medicine
http://www.cfavm.ca/

Canadian Society of Soil Science
http://www.csss.ca

Alberta Society of Professional Biologists
http://www.aspb.ab.ca/

Canadian Agricultural Economics Society
http://caes.usask.ca/

Canadian Institute of Food Science & Technology
http://www.cifst.ca/

Canadian Society for Bioengineering
http://csbe-scgab.ca/

Canadian Weed Science Society
http://www.weedscience.ca/

Plant Canada – The Federation of Canadian Plant Science Societies
http://www.plantcanada.ca/
**Campus Resources**

Career & Employment Services (CES)  

Career Counselling (Counselling Services)  

Academic Advising  
[http://www.uleth.ca/ross/academic-advising](http://www.uleth.ca/ross/academic-advising)

Native Student Advising  

Student Success Centre – Study Skills, Learning Strategies & Tutoring  

Accommodated Learning Centre  

International Centre for Students  
[http://www.uleth.ca/international/](http://www.uleth.ca/international/)

Registrar Office & Student Services  

Scholarship & Students Finance  

U of L Students’ Union & Student Clubs  
[http://www.ulsu.ca/](http://www.ulsu.ca/)

**Campus Job Resources**

Career & Employment Services Job Board  
[CES Job board](http://www.uleth.ca/ross/ces/job-board)

Management Co-op Education  

Arts & Science Applied Studies  
[http://www.uleth.ca/artsci/applied-studies/students](http://www.uleth.ca/artsci/applied-studies/students)

Study Abroad & Exchanges  
[http://www.uleth.ca/international/content/study-abroad-exchanges](http://www.uleth.ca/international/content/study-abroad-exchanges)

Arts & Science Co-op Education & Internship  
[http://www.uleth.ca/artsci/coop](http://www.uleth.ca/artsci/coop)

Management Study Abroad & Exchanges  
[http://www.uleth.ca/management/study-abroad](http://www.uleth.ca/management/study-abroad)

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**Career & Employment Services (CES)**

CES assists U of L students and graduates with their career exploration and work search needs.

AH154 Anderson Hall, Phone: 403-329-2000  
Mon- Fri: 9:00 a.m. to 12:00 p.m.  
1:00 p.m. to 4:00 p.m.