Careers by Major - Biology

This document serves as a starting point for your career research. Each Careers by Major page provides lots of ideas on various career areas, as well as how to gain related skills and experience. Useful resources and job samples are also provided. Visit us in the Career Centre to find out more about career areas that interest you.

Last updated: September 2017.

Sample Careers / Jobs

Below is a sample of the many types of careers and jobs pursued by graduates of this program.

Sample Career Titles

Note: This is not an exhaustive list. Detailed career profiles are available in the Career Centre. Some positions require further education and experience.

Biological Technician*
Health Records Professional*
Technical Sales Rep.*
Toxicologist*
Hydrometric Technologist
Veterinary Technican*
Teacher/Professor*
Compliance Promotion Spec.
Paramedic*
Entomologist
Chiropractor*
Optometrist*
Pharmacologist*
Massage Therapist*
Science Magazine Editor
Entrepreneur*
Clinical Research Coordinator
Curator*
Wildlife Biologist
Zoologist*
Community Health Worker
Medical Transcriptionist*
Biomedical Engineer*
Marine Biologist*
Physiotherapist*
Ornithologist
Diagnostic Medical Sonographer*
Recreation Director*
Audiologist*
Cyto technologist*
Bacteriologist
Forensic Laboratory Analyst
Microbiologist*
Environmental Health Officer*
Conservation Officer*
Business Systems Analyst*
Biochemist*
Radiation Therapist*
Technical Writer*
Doctor*
Quality Controller*
Food Scientist*
Health Policy Analyst
Medical Illustrator*
Aquaculture Technician
Occupational Therapist*
Public Relations Specialist*
Patient Services Coordinator
Botanist*
Biostatistician
Speech-language pathologist*
Genetic Counsellor*
Intellectual Property Lawyer
Environmental Lawyer
Medical Librarian
Dietician*
Biotechnologist*
Ecologist*
Facilities Manager/Supervisor
Validation Specialist
Epidemiologist*
Geneticist*
Biologist*
Pharmaceutical Financial Analyst
Product Marketing Manager
Health Care Administrator*
Business Dev’t Research Analyst
Operations Research Analyst*
Bioinformatics Specialist*
Logistics Specialist*
Web Developer*
Agronomist*

* View these titles at Career Cruising, available on CLN (cln.utoronto.ca) under the Resources tab.

Sample Job Listings

Below is a sample of positions that have been promoted within the Career Centre. To access current postings, login to CLN at www.cln.utoronto.ca and click on Jobs.

• Medical Editor, Kendle INC Research
• Pharmaceutical Sales Representative, Impres Pharma Inc.
• Animal Care Attendant/Custodian, St. Clair Veterinary Facilities
• Ambulatory Care Clinics Volunt., St. Joseph’s Health Centre Toronto
• Public Relations Manager, The Healing Cycle Foundation
• Bioinformatics/Genome Research, Department of Biology, UTM
• Health Records Technician, Toronto Central Community Care Access Centre
• Aquaculture Research Technician, Aquabiotech
• Coordinator, Planning Ecology, Toronto & Region Conserv. Authority
• Research Technologist, SickKids
• Lab Technician in Neurology, Toronto General Hospital
• Invasive Species Community Outreach Liaison, Central Lake Ontario Conservation Authority
• Sleep Technician Trainee, Sleep Disorders Clinic Centre for Sleep and Chronobiology
• Clinical Assistant, Unionville Family Wellness Centre
• Data Analyst, Acumed Medical Ltd.

Sample Areas of Employment

• Manufacturing and processing companies
• Government agencies and non-profit agencies
• Engineering firms
• Industrial inspection firms
• Scientific research and development companies
• Conservation authorities, zoos, national/provincial parks, aquariums
• Law firms
• Hospitals and medical centres
• Environment and pollution control
• Self-employed/freelance
• Pharmaceutical companies
• Academic medical centres/laboratories
• Consumer health libraries
• Consulting firms
• Universities and colleges, boards of education
• Magazines and newspapers, publishing companies

Prepared by UTM Career Centre. To view the online version with links, go to www.utm.utoronto.ca/careers/careers-by-major.
Program-Related Skills

Academic courses in this program provide opportunities to develop the following types of skills. Make a career counselling or an employment strategy appointment to discuss how you can demonstrate these skills to employers.

- **Communication & interpersonal:** write scientific reports; present research findings; interact professionally with a multidisciplinary team of researchers, technicians, students and professors; and literacy writing.
- **Research:** collect and preserve field organisms; dissect preserved or euthanized specimen; inspect specimens; and analyze and evaluate information.
- **Technical:** use specialized computer programs; perform laboratory procedures; maintain laboratory equipment and instrumentation; and comply with quality control procedures.
- **Quantitative:** analyze data for trends and apply statistical tests to data.
- **Critical thinking & problem-solving:** analyze and logically interpret trends and results.

Explore Careers & Build Networks

**Career Exploration 101**

Take our 15 minute online module available at utm.utoronto.ca/careers/career-planning/career-exploration and attend the Career Exploration Part 2 in-person workshop read about how you can gain access to UTM's three career exploration programs:

- Extern Job Shadowing
- In The Field
- Informational Interviews

**Alumni Profiles**

Check out our Alumni Profiles page with submissions from UTM grads to find out how their experiences have affected their career direction.

**Events**

Attending networking events, employer info sessions, and career fairs is a great way to meet professionals and learn more about careers, companies, and industries. Login to CLN and click on Events & Workshops to see what's coming up.

**Talk to Professors**

Connecting with your professors can be a great way to explore the different paths a major can lead you to, as well as learn about possible opportunities for research, volunteering, or becoming a TA. Drop by during their office hours or request an appointment.

**Student Organizations**

Join a student club or an academic society at UTM to meet like-minded people, explore your interests, and gain valuable skills. To view a list of current clubs and societies, visit the Centre for Student Engagement online. Some organizations you may consider are:

- Erindale Biology Society
- Biotech Investment Club
- Pre-Medical Club
- Health Out Loud at UTM
- Global Brigades
- World Wildlife Foundation at UTM

**LinkedIn**

Create a LinkedIn profile to connect with professionals in the fields, explore the career paths of UTM alumni, research employers, apply for specific positions, and more. Need help? Come into the Career Centre to book a LinkedIn profile critique.

**Professional Associations**

There are many benefits of becoming a member of association(s), such as developing a network of contacts, learning about industry trends, accessing industry-related job postings, and stating your affiliation on your resume. Some associations related to this major are:

- Canadian Society for Molecular Biosciences (CMB)
- Canadian Society for Medical Laboratory Science (CSMLS)
- BIOTECanada
Get Experience

Get some experience and exposure to the industry while being a student. This will increase your chances of finding a job after graduation, while helping you decide what area might be most suitable for you.

Crack the Hidden Job Market

Networking is an essential element of job search today, as most jobs are not advertised. While you should still apply for positions you find online, building relationships with professionals is a proven way to access the "hidden job market" with some of the most desirable opportunities.

Attend the "Learn to Network" workshop to discover proven techniques to effectively introduce yourself and make contacts.

On-Campus

Experience 101 Handout

Check out the Experience 101 handout on www.utm.utoronto.ca/careers/on-campus-opportunities to view a list of some of the ways you can get valuable experience on campus.

Work Study Positions

The work study program provides eligible students with an opportunity to work on campus during the academic year and gain experience. Many departments use this program to hire UTM students during the Fall/Winter and Summer terms.

Research Opportunity Program (ROP)

UTM's Research Opportunity Program (ROP) allows undergraduate students to gain valuable research experience and earn a course credit by participating in a faculty member's research project. Courses are held during Summer and Fall/Winter terms.

Part Time and Volunteer Positions

• Attend the annual Get Experience Fair
• Check out our binder with detailed information on volunteer opportunities; available in the Career Centre
• Learn about the Co-Curricular Record (CCR), which can help you find opportunities beyond the classroom and have your skills and experiences captured on an official document; go to www.ccr.utoronto.ca to find out how you can get involved

Student Organizations

Join a student club or an academic society at UTM to meet like-minded people, explore your interests, and gain valuable skills. To view a list of current clubs and societies, visit the Centre for Student Engagement at www.utm.utoronto.ca/student-life/student-organizations.

Off-Campus

Internships, Summer, Part Time and Volunteer Positions

• Check out our binders with detailed information on internships and volunteer opportunities; available in the Career Centre
• Login to Career Learning Network (CLN) and click on Jobs to access current postings advertised to UofT students
• Attend the annual Get Hired: Summer and Full-Time Jobs Fair
• Consider taking an academic internship course through your department
• Check out Government of Ontario - Job Programs for Youth Summer Employment Programs' web page
• Review our Internships, Summer Employment Programs, and Summer Job Search tip sheets at utm.utoronto.ca/careers/tip-sheets

Full Time

• Login to CLN and click on Jobs to access current postings advertised to graduating students and recent UofT grads.
  Note: You must attend the "Now That I'm Graduating, What's Next?" workshop to gain access to these postings.
• Attend the annual Get Hired: Summer and Full-Time Jobs Fair
• Check out our list of industry-specific job boards on www.utm.utoronto.ca/careers/jobs/jobs-resources-links
Useful Resources & Next Steps

Appointments
- Attend a one-on-one appointment with a career counsellor or an employment strategist to discuss what career options might work for you and determine a job search plan. Contact the Career Centre for more information.
- Meet with an academic or departmental advisor, who can guide you in achieving academic success. Contact the Office of the Registrar or your department for more information.

Career Centre Library Resources
The Career Centre resource library contains information about a wide range of occupations in all industries, resume and cover letter resources, effective work search methods, graduate/professional school preparation guides, and more. Located in DV 3094.

Career Planning by Year
Look for our Career Planning by Year web page on www.utoronto.ca/careers/career-planning for ideas of important career related activities for each year.

Questions?
Visit the UTM Career Centre located in DV 3094, call 905-828-5451, or visit www.utm.utoronto.ca/careers.

Additional Web Resources
- BioTalent Canada – Career Tools
- TalentEgg – Health Care Career Guide
- Jobpostings.ca – Career Guides in Health Care, Pharmacy, & Biotech
- American Institute of Biological Sciences – About Careers in Biology
- The Scientist magazine for life science professionals
- Canada’s Top 100 Employers for Young Workers