What to do with a degree in

CELLULAR, MOLECULAR
AND MICROBIAL BIOLOGY

The aim of the disciplines of CMMB is to understand how the molecules within a particular cell type carry out these specialized functions.

**Key Skills & Knowledge**

**Research and laboratory:** Administer biological tests; collect and preserve field organisms; laboratory procedures and safety.

**Analytical:** Analyze and memorize large amounts of information; interpretation of experimental or laboratory results; observe and make measurements on organisms; analyze data for trends.

**Teamwork:** Oversee, supervise and contribute to a project.

**Communication:** Conduct research and present findings in written format; public speaking and oral communication skills; write scientific technical and non-technical reports.

**Organizational:** Manage time effectively; set goals; meet deadlines; demonstrate precision and accuracy in data collection and observation; data, time and resource management.

**Sample Job Titles**

| Bacteriological Technician | Health Educator | Teacher/Professor |
| Biologist System Specialist | Laboratory Technician | Technician |
| Biologist | Life Skills Counsellor | Testing Development Scientist |
| Bio-Safety Officer | Meat Microbiologist | Toxicology Consultant |
| Biostatistician | Medical Laboratory Technologist | Ultra Sound Technologist |
| Cancer Researcher | Molecular Genetics Technologist | |
| Cardiovascular Researcher | Pathology Technician | |
| Cell Biologist | Pharmaceutical Technician | |
| Control Analyst | Plant Molecular Biologist | |
| Disease Area Corrector | Quality Control Microbiologist | |
| Environmental Officer | Radiographer | |
| Inspection Manager | Research Scientist | |

Some of these roles may require further training, certification or education. Check out the Alberta Government’s occupational profiles for salary info and more detail: [alis.alberta.ca/occinfo](alis.alberta.ca/occinfo)

*Need help deciding what to do?*

Formal Career Assessments like the Strong Interest Inventory and the Myers Briggs Type Indicator can be helpful tools for your career development. Request an assessment via [CareerLink](#)
Associations provide an opportunity for continued professional development. Many also offer networking opportunities and other events for their members.

- Alberta Women’s Science Network (AWSN) and Mentorship Program: www.awsn.com/
- Association of Science and Engineering Technology Professionals of Alberta (ASET): www.aset.ab.ca/
- Canadian Association for Clinical Microbiology and Infectious Diseases: www.cacmid.ca/
- Canadian Association of Pathologists: www.cap-acp.org/
- Canadian Association of Science Centres: canadiansciencecentres.ca
- Canadian Bioethics: bioethics.ca
- Canadian College of Microbiologists: www.ccm.ca/
- Canadian Federation of Biological Societies: www.cfbs.org/
- Canadian Medical Association: www.cma.ca/
- Canadian Society for Immunology: www.csi-sci.ca/
- Canadian Society for International Health: www.csih.org/
- Canadian Society for Medical Laboratory Science: www.csmls.org/
- Canadian Society of Biochemistry, Molecular and Cellular Biology: www.csmbcb.ca
- Emerging Health Leaders (EHL): hemerginghealthleaders.ca/calgary/
- Women in Science and Engineering (WISE): uofcwise.com

Additional Resources

Guide to Non-traditional Careers in Science by Kreeger, Karen Young
Opportunities in Clinical Laboratory Science Careers by Karni, Karen
Opportunities in Health and Medical Careers by D'Orazio, Leo Paul & Snook Jr., I.