What to do with a degree in Biochemistry

The Biochemistry program imparts a comprehensive understanding of the chemistry of the building blocks of biological molecules, complex biomolecules and their structure and biological function.

Key Skills & Knowledge

Analytical: Interpret results; make projections from data and determine probabilities; apply scientific concepts to solve problems.

Communication: Oral and written communication skills; organizational skills; ability to work independently and meet deadlines; presenting and communicating ideas clearly and articulately using current technology.

Research: Research skills; collection, analysis and interpretation of data using the appropriate laboratory and/or field techniques; organizing vast amounts of data.

Organizational: Data, time and resource management.

Teamwork skills: The ability to oversee, supervise and/or contribute to a project.

Technical: Ability to operate laboratory equipment and to employ appropriate scientific lab techniques; operate laboratory equipment and instruments.

Sample Job Titles

Agricultural or Soil Chemist
Analytical Biochemist or Chemist
Atmospheric/Environmental Chemist
Biomedical Researcher
Biotecnologist
Clinical Trials Technician
Coatings Chemist/Protective Coatings
Chemist
Dairy Chemist
Data Analyst
Dietary Supervisor
Drug Trial Researcher
Ecologist
Electrochemist
Environmental Impact Assessor
Epidemiologist
Fabric/Textile Designer
Fermentologist or Food Chemist
Food & Drug Inspector
Food and Beverage Tester
Forensic Lab Analyst
Geneticist
Industrial Chemist
Inorganic or Organic Chemist
Lab Systems Analyst
Lab Technician
Mass Spectrometrist
Nuclear Medicine
Nutritional Chemist
Occupational Hygienist
Organometallic Chemist
Petroleum Chemist
Physical Chemist
Plastics and Resins Chemist
Protein Chemist or Enzyme Chemist
Quality Control Analyst
Research & Development Specialist
Scientific Research Assistant
Statistician
Teacher/Professor
Technical/Science Writer
Therapeutic Dietitian
Toxicologist

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

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
**POTENTIAL INDUSTRIES**

<table>
<thead>
<tr>
<th>Administration</th>
<th>Healthcare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural</td>
<td>Hospitals/Clinics</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>Law/Drug Enforcement</td>
</tr>
<tr>
<td>Conservation</td>
<td>Museums</td>
</tr>
<tr>
<td>Drug Development</td>
<td>Pharmaceuticals</td>
</tr>
<tr>
<td>Education</td>
<td>Post-Secondary Institutions</td>
</tr>
<tr>
<td>Environment</td>
<td>Research Institutions</td>
</tr>
<tr>
<td>Food &amp; Beverage</td>
<td>Science Journals</td>
</tr>
<tr>
<td>Manufacturers</td>
<td>Technical writing</td>
</tr>
<tr>
<td>Food &amp; Drug Consulting Firms</td>
<td>Testing Laboratories</td>
</tr>
<tr>
<td>Government</td>
<td></td>
</tr>
</tbody>
</table>

**ASSOCIATIONS & PROFESSIONAL DEVELOPMENT**

Associations provide an opportunity for continued professional development. Many also offer networking opportunities and other events for their members.

- Alberta Society of Professional Biologists (ASPB): [aspb.ab.ca](http://aspb.ab.ca)
- American Society for Biochemistry & Molecular Biology: [asbmb.org](http://asbmb.org)
- BioTalent Canada: [biotalent.ca](http://biotalent.ca)
- BIOTECanada: [biotech.ca](http://biotech.ca)
- Canadian Association of Science Centres: [canadiansciencecentres.ca](http://canadiansciencecentres.ca)
- Canadian Bioethics: [bioethics.ca](http://bioethics.ca)
- Canadian Society for Medical Laboratory Science: [csmls.org](http://csmls.org)
- Canadian Society of Biochemistry, Molecular and Cellular Biology: [csbmcb.ca](http://csbmcb.ca)
- Canadian Society of Clinical Chemists: [cscc.ca](http://cscc.ca)
- Chemical Institute of Canada: [cheminst.ca](http://cheminst.ca)
- The Natural Sciences and Engineering Research Council of Canada: [nserc-crsng.gc.ca](http://nserc-crsng.gc.ca)
- Pharmacological Society of Canada: [pharmacologycanada.org/](http://pharmacologycanada.org/)
- SIMS (Students Interested in Medical Science): [people.ucalgary.ca/~simclub/](http://people.ucalgary.ca/~simclub/)
- Women in Science and Engineering (WISE): [uofcwise.com](http://uofcwise.com)

**Career Services**

**YOUR FUTURE STARTS HERE**

- Career Planning
- Job Search Support
- Resume Reviews
- Career Workshops
- Online Job Postings
- Career Fairs
- Networking Events
- Information Sessions & much more!

**Connect with us:**

MacEwan Student Centre, Room 188  
T: 403.220.8020  
E: csstdnt@ucalgary.ca  
CareerLink: [ucalgary.ca/careers](http://ucalgary.ca/careers)

Facebook: ucalgarycareers  
Twitter: @HireUCalgary

**Job Boards**

- Indeed: [https://ca.indeed.com/](https://ca.indeed.com/)
- Bio Job Net: [http://biojobnet.com](http://biojobnet.com)
- Science Jobs: [https://www.sciencejobs.org/](https://www.sciencejobs.org/)
- LinkedIn: [www.linkedin.com](http://www.linkedin.com)
- CareerLink: [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

**Additional Resources**

- Careers for Scientific Types & Other Inquiring Minds by Jan Goldberg
- Life After...Biological Sciences: A Practical Guide to Life After Your Degree by Sally Longson
- Opportunities in Chemistry Careers by Woodburn, John H.

**Faculty Contact**

Biological Sciences 186  
T: 403.220.5261  
E: biorecep@ucalgary.ca  
W: bio.ucalgary.ca  
W: ucalgary.ca/admissions/programs

**Student Clubs**

- Biology Student Association: [bio.ucalgary.ca/undergraduate/student_life](http://bio.ucalgary.ca/undergraduate/student_life)
- **Aligned Majors:** Biological Sciences, Environmental Science, Cellular, Molecular, and Microbial Biology, Chemistry