

WHAT CAN I DO WITH A BACHELOR OF SCIENCE IN CHEMISTRY?



A Guide Compiled by Concordia Career Services

General Skill Sets:

Chemistry majors develop the skills necessary to design and execute experimental protocols, to analyze data qualitatively and quantitatively, and to develop models and theories based on this data. Additionally, a Chemistry major will develop the ability to communicate complex ideas in an effective manner through the development of analytical reasoning and writing skills.

Chemistry is also studied in an environmental and social context, so you gain awareness of its ethical implications and issues relating to environmental impact and sustainability.

When employers are hiring, they are interested in the skills attained through university study. Examples include to:

- carry out chemical reactions
- prepare standards and samples
- analyze samples using bench methods and sophisticated instrumentation
- prepare reports and required documentation
- maintain and upgrade laboratory instruments and equipment
- manage projects and make presentations about results
- strong analytical skills
- an aptitude for science and mathematics
- manual dexterity
- strong oral and written communication skills
- the ability to pay close attention to details

Source: [<http://occinfo.alis.alberta.ca/occinfopreview/info/browse-occupations/occupation-profile.html?id=71001587>]

Skills Acquired From an Undergraduate Degree in Chemistry:

- Critical thinking and analysis skills
- Creative problem-solving skills
- Skills in data management and interpretation
- Written and verbal communication skills
- Research and laboratory skills
- Attention to detail
- Ability to work independently and collaboratively
- Monitoring and maintaining records and data
- Presentation skills
- Team work
- IT and technology

Careers for Graduates with an Undergraduate Degree in Chemistry:

There are many different career options for undergraduate Chemistry degree graduates. Below is a sample of positions available for graduates

Chemical Technician (Industrial)
Chemist-Hair Color
Custom Health - Research Analyst
Entry Level Chemist
Jr. Development Chemist
Lab/Chemist/Formulation Chemist/Cosmetic Chemist
Laboratory Analyst (Pre-Screening)
Laboratory Technician
Laboratory Technician/Chemist - Environmental Testing Lab

Microbial/ Chemical Technologist
Pesticides Specialist
Raw Materials
Sales Associate
Sales Representative
Sample Receiving Technician
Synthetic Chemist
Tutor Mentors: Chemistry/Math/Physics
Wet Lab Technician

As learning is life-long, some careers which are related to Chemistry Degree require additional training. This may involve weekend, evening or part-time courses; further education (some employers provide support by allowing time or offering finances to assist you in your learning); distance studies; or full time college or university, including graduate studies. In any case, the Bachelor's degree is a starting point.

Other Careers Related to Chemistry:

Health:

Doctor
Health Care Administrator
Health Care Coordinator
Magnetic Resonance Technologist
Medical Lab Technology
Medical Researcher
Pharmaceutical Chemist
Pharmacist
Pharmacologist
Physician
Toxicologist

Education

High School Teacher
University Professor

Environment

Ecologist
Environmental Auditor
Environmental Consultant
Environmental Policy Maker
Hazardous Waste Management Technologist

Industrial Hygienist
Pollution Control Specialist
Quality Controller
Soil Chemist
Sustainability Specialist
Water Purification Technologist

All sectors

Art Conservator
Food and Beverage Processing Grader
Food Scientist
Hydrometric Technologist
Industrial Designer
Paint Formulation Chemist
Patent Examiner
Plant Manager
Purchasing Officer / Purchaser
Safety Officer
Sustainability Specialist
Technical Sales representative
Technical Writer/Editor
Textile Chemist

References

www.alis.gov.ab.ca/occinfo
www.jobsfuture.ca
www.unce.edu/stuaff/career/Major/index.htm

For more information or assistance with career and educational planning, please contact Concordia Career Services at + **(780) 378 – 8461** or careerservices@concordia.ab.ca.