

Linking Majors to Careers

CHEMISTRY

Chemistry

Chemists study the structure and make-up of substances, and the way their interaction changes and transforms them. In basic research, chemists investigate properties of matter and the laws that come into play when elements combine. Those in research and development create new products, such as vaccines and synthetics, and they find ways to apply this new knowledge to fields in the areas of nutrition, genetics, drugs, and environmental protection.

▪ The more common specialties in the field of chemistry (the structure, compositions, and amounts of substances), organic chemistry (living organism and carbon compounds), inorganic chemistry (compounds other than organic), physical chemistry (transformation of energy and matter). By combining with other sciences, these specialties produce interdisciplinary fields such as biochemistry, chemical oceanography and materials science.

SKILLS: The person who majors in **Chemistry** at Regis University has the opportunity to learn a variety of essential **skills** such as:

- making presentations
- conducting research
- evaluating analytical data
- working with computers
- developing ideas
- teamwork
- analyzing
- keeping records
- analyzing numerical data
- writing
- gathering information
- critical thinking
- writing technical reports

SOME TIPS ON GETTING A JOB IN THIS FIELD:

1. Do an internship in the area of your interest.
2. Join the Chemistry Club to gain new information about the field.
3. Do informational interviewing to get a better idea of jobs in your area. Career Services (in the Coors Life Directions Center) will be glad to help you get started.
4. Attend national or local professional association meetings recommended by your professors.
5. Do undergraduate research with one of your chemistry professors.
6. Volunteer to be a lab or teaching assistant.

RELATED JOBS: Graduates with a bachelor's degree can get beginning jobs in analysis and testing, or in technical sales and services. With appropriate courses in education, they can qualify for high-school teaching positions. You generally need a Ph.D. to do research, teach in colleges and universities, and move up in administrative positions. Listed below are typical career fields Biochemistry majors enter:

Agricultural chemist	Hazardous material technician	Pharmaceutical chemist*
Analytical chemist	Inorganic chemist*	Pharmacist*
Chemical engineer	Journalist	Physical chemist
Chemistry professor*	Laboratory technician	Public policy administrator*
Chemistry teacher	Manager	Safety inspector
Dentist*	Medical doctor*	Salesperson/technical
Environmental analyst	Oceanographer*	Scientist (research and dev.)
Firefighter	Organic chemist*	Veterinarian
Genetic counselor*	Patent attorney	Water quality control specialist
Genetic engineer*		Writer, technical

* Usually requires more education beyond the bachelor's degree.

WEB SITES RELATED TO BIOCHEMISTRY:

American Chemical Society www.acs.org

CAREER RESOURCES IN:

- CAREER SERVICES LIBRARY (CS)
 - DAYTON MEMORIAL LIBRARY (DM)
 - ON THE INTERNET
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Career and Occupational Information

Occupational Outlook Handbook (CS, DM, and <http://www.bls.gov/oco>)

ONET <http://online.onetcenter.org>

Adams Jobs Almanac (CS, DM)

Dictionary of Occupational Titles (CS, DM)

Great Careers for... series (CS)

Careers for ... series (CS)

Careers in ... series (DM)

Encyclopedia of Career and Vocational Guidance (DM)

Liberal Arts Career News (CS)

Professional Organizations

National Directory of Non-Profit Organizations (DM)

Denver Meets (DM)

Encyclopedia of Associations (link on DM online catalog)

Internet Public Library listing at: <http://www.ipl.org/div/aon>

Employer Directories

Reference USA (link on DM online catalog)

Denver Business Journal Top 25 Book of Lists (CS, DM)

Colorado Business Directory (DM and available via link on DM online catalog)

Directory of Colorado Manufacturers (DM)

Rocky Mountain High Tech. Directory (DM)

Almanac of American Employers (DM)

Job Banks for US cities (CS, DM)

Standard & Poor's Register of Corp. Directory (link on DM online catalog)

Thomas Register of American Manufacturers
<http://www.thomasregister.com>

Directory of Colorado Non-Profits (DM and <http://www.coloradonoprofits.org>)

Employment Outlook

Occupational Outlook Quarterly (CS, DM)

Job Rated Almanac (DM)

CAM report (CS)

Employment Outlook for Colorado (DM)

Internships

Internships are placements with employers that give Regis

College students with a GPA of 2.5 or better the opportunity to combine coursework with real-life experience while earning academic credit. Internships enhance academic knowledge, personal development and professional preparation. In addition, a successful internship can give students an edge when hiring decisions are made because employers seek applicants with practical experience in their field. Students interested in an internship need to register with the **Academic Internship Program** for help with determining a site placement, learning objectives and academic criteria.

Graduate School Information

Real Guide to Grad School (CS, DM)

Peterson's Graduate and Professional Programs (CS, DM and <http://www.petersons.com>)

Gorman Report (CS)

Graduate School Admissions Advisor (CS)

Getting what you came for (CS)

Educational Rankings Annual (DM)

College Blue Book (DM)

Directory of Post-Secondary Institutions (DM)

Salary Information

Colorado Occupational Wages

(<http://www.coworkforce.com/lmi/wages/wages.asp>)

Compensation & Working Conditions (DM)

NACE Salary Survey (CS)

Salary.com - <http://Salary.com>

Alumni Career Network

One of the best resources for career information is people who work in the field you are considering. Contact information for Regis Alumni who have agreed to talk with students investigating career fields is available on the Alumni Career Network, a program located under "Alumni" at <http://www.ecampusrecruiter.com/regis>

World Wide Web Sites

Regis Career Services: <http://www.regis.edu/careerservices>

Dayton Memorial Library article and research database:

<http://www.regis.edu/libdatabase.asp?sctn=lib&p1=empty>

JobWeb (NACE): <http://www.jobweb.org>

Career Magazine: <http://www.careermag.com>

America's Job Bank: <http://www.ajb.dni.us>