

Linking Majors to Careers

BIOLOGY

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Biology is the science of life. It involves the study of the structure, evolutionary development, ecology, and functions of plants, animals, and micro-organisms. Biologists specialize in different fields such as microbiology, zoology, botany, virology, physiology, ecology, immunology, biotechnology, and genetics. Many biologists work for federal, state, and local government agencies. The rest are found on college and university campuses and in private industry.

Wherever they work, they are involved in research and development, data collection, food and drug testing, and more. Some teach classes or disseminate information through agricultural extension services. Some manage research programs, university departments, regulatory agencies, testing labs, or museums. Some are inspectors of food and drugs, consultants to business and government, technical writers, and technical sales and service representatives. Some are employed in the new and growing biotechnology industry.

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

- collecting and analyzing data
- making oral presentations
- conducting
- computer analysis
- conducting research
- evaluating data
- preparing reports/writing
- gathering information
- making critical observations and appropriate decisions

SOME TIPS ON GETTING A JOB IN THIS FIELD:

1. It is important to have an internship in your specific area of interest.
2. Do informational interviewing to learn what kind of jobs there are in your area. Career Services (Coors Life Directions Center) will be glad to help you get started with this.
3. Attend national or local professional association meetings recommended by your professor.

RELATED JOBS: Students with a bachelor's degree in biology have opportunities in education, research, business and industry. The doctorate is needed for positions in college teaching, independent research and administration. The master's degree will do for some jobs such as public health professional and genetic counselor. A bachelor's degree is needed for technical positions such as laboratory technician, sales, and teaching in middle school and high school. Listed below are typical career fields Biology majors enter:

anatomist*	forensic scientist*	physician*
biochemist*	genetic counselor*	physician assistant*
biological photographer	geneticist*	plant pathologist*
biomedical engineer*	immunologist*	public-health professional*
botanist*	laboratory technician	research assistant*
dentist*	marine biologist*	teacher
developmental biologist*	medical technologist*	veterinarian*
dietitian*	microbiologist*	wildlife biologist*
ecologist*	molecular biologist*	wildlife manager
entomologist*	optometrist*	writer/technical
scientific	environmental analyst	parasitologist*
zoologist*	evolutionary biologist*	pharmaceutical
salesperson	fisheries biologist	physical therapist*

* Usually requires a degree beyond the bachelor's level or additional training in a specific field.

WEB SITES RELATED TO BIOLOGY:

Bio Online – www.swbic.com
Biodiversity – www.uno.edu
The Biospace Career Center – www.biospace.com
BME – www.bmenet.org
HireBio – www.hirebio.com
Fishery and Wildlife Biology – www.cnr.colostate.edu
Medsearch – www.millenniummedsearch.com
Science Jobs – www.sciencejobs.com
Symbios Inc. – www.electronics.ee.com
Zeno's Forensic Page – www.medical.health.org

PROFESSIONAL ORGANIZATIONS IN THIS FIELD:

American Phytopathological Society – www.apsnet.com
American Society for Gravitational and Space Biology – www.indatate.edu/asgsb
American Society for Horticultural Science – www.asha.org
American Society for Microbiology – www.asm.org
American Society of Plant Biologists – www.aspb.org
Association of Analytical Communities International – www.aoac.org
Behavior Genetics Association – www.bga.org
The Society of Toxicology – www.ace.orst.edu
Botanical Society of America – www.botany.org
Ecological Society of Americas – www.esa.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 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>