This information describes typical occupations and employment settings associated with this major. Understand that some of these options may require additional training. Moreover, you are not limited to these options when choosing a possible career path.

Description of Biology, Biochemistry & Molecular Biology

Biology encompasses the study of all living organisms, including microbes, plants, and animals. The study of biology includes various aspects of life, including basic organization (molecular, cellular, tissues, organs), how organisms function, their roles in the natural environment, how hereditary information is transferred, and development of biotechnology. Biology graduates are broadly trained and well prepared for admission into strong graduate programs in the biological sciences and professional schools (medical, dental, and veterinary). They may also directly assume positions in government, education, industry, or certain technical fields.

Biochemistry is the study of the chemical substances and vital processes occurring in living organisms. Biochemists focus heavily on the role, function, and structure of biomolecules. The study of the chemistry behind biological processes and the synthesis of biologically active molecules are examples of biochemistry.

Molecular biology is the study of molecular underpinnings of the processes of replication, transcription, translation, and cell function. The central dogma of molecular biology where genetic material is transcribed into RNA and then translated into protein, despite being an oversimplified picture of molecular biology, still provides a good starting point for understanding the field. This picture, however, is undergoing revision in light of emerging novel roles for RNA.

Researching Job Titles and Careers

O*NET http://online.onetcenter.org (click on Find Occupations)
Occupational Outlook Handbook http://www.bls.gov/oco (type in general term for career of interest)
Georgia Career Information Center http://www.gcic.peachnet.edu (accessible only on campus computers)
Career Insider: Vault Guides http://career.uga.edu/resources/online_resources (Under the “Resources” tab and select “Online Resources”)
Candid Career http://career.uga.edu/resources/online_resources (View professionals speaking about their careers under the “Resources” tab and select “Online Resources”)

Possible Job Titles

- Analytical Chemist
- Bacteriologist
- Biochemist
- Clinical Pathologist
- Clinical Research Coordinator
- Crime Lab Analyst
- Cytotechnologist
- Environmental Scientist
- Field Study Coordinator
- Food and Drug Inspector
- Forensic Scientist
- Health Program Administrator
- Hemotherapist
- Histologist
- Infectious Disease Specialist
- Lab Tech Assistant
- Laboratory Supervisor
- Medical Equipment Sales Rep.
- Medical Investigator
- Medical or Science Librarian
- Medical or Science Writer
- Microbiologist
- Nuclear Medicine Specialist
- Optometrist
- Ophthalmologist
- Parasitologist
- Pharmaceutical Sales Rep.
- Phlebotomist
- Physician Assistant
- Public Health Specialist
- Research Immunologist
- Surgeon - Surgical Nurse
- Toxicologist
- Nurse Anesthetist

Possible Employers

- Alion Science and Technology
- Argonne National Laboratory
- Emory University Hospital
- BioLab
- EPA
- Biomolecular Structure/Dynamics
- CDCGA Bureau of Investigation
- Cellular Signal Interaction Group
- Ctr. for Biological Sequence Analysis
- Center for Bioelectrics
- Cryolife
- Food and Drug Administration
- GA State Department of Health
- Danaklion American Inc.
- Dept of Natural Resources
- Diagnostic testing companies
- Gwinnett Animal Hospital
- Hematology/Oncology of NE GA
- The Institute for Genomic Research
- Joseph W Jones Ecological
- Katholieke Universiteit Leuven
- Meditech Media
- Merck
- Merieux Laboratories Inc.
- National Institute of Health
- Neural Signals, Inc.
- New England Medical Center
To learn what types of positions and companies UGA students are working with, see the UGA Career Center Post Graduation Survey at www.career.uga.edu/gradsurveyresults/ and search for alumni on Linked In at www.linkedin.com.

Campus Resources

Biochemistry & Molecular Biology
Angie Stockton
angie@bmb.uga.edu
(706) 542-1730

Pre-med
Dr. Joe Crim
UGA Premedical Studies Interim Director
(706)542-0444

Alpha Epsilon Delta Premedical Honors Society – http://www.uga.edu/aed/
American Medical Student Association (AMSA) - http://www.ugaamsa.org
Beta Beta Beta is a National Biological Honor Society - http://www.tri-beta.org/
Pre-Nursing Club – https://www.facebook.com/groups/134274903302291/
Pre-Veterinary Medicine Club - http://pre-vet.uga.edu/
Pre-Physician Assistant Club – Website: http://www.prepaclub.uga.edu
Pre-Pharmacy Society – Email Address: pharmsoc@uga.edu

To find additional clubs and organizations, go to the Center for Student Organizations at - http://stuorgs.uga.edu/find/index.html
Connect with your Career Consultant http://career.uga.edu/contact#careerconsultants

Employment Websites

GENERAL:
CareerSearch http://career.uga.edu/resources/online_resources (Research employers by location and/or industry)
DAWGlink www.career.uga.edu/ (login with your UGA MyID and password)
GoinGlobal (To access GoinGlobal, login to your DAWGlink account)
Idealist www.idealist.org/ (nonprofit jobs)
USAJobs www.usajobs.gov/ (federal jobs)

MAJOR/CAREER SPECIFIC:

Careers in the Biological Sciences - http://www.aibs.org/careers/
Careers, American Institute of Biological Science - http://www.aibs.org/careers/
SCA – Internships; Gap Years (room/board/stipend) - http://www.thesca.org/serve/internships
Environmental Jobs & Careers - http://www.ejobs.org/

Professional Information Resources

American Society for Biochemistry and Molecular Biology - http://www.asbmb.org/
American Institute of Biological Science - http://www.aibs.org/careers/
American Society for Microbiology - http://www.asm.org/
The Oceanography Society - http://www.tos.org/resources/job_ann.html
Institute of Bioinformatics - http://www.ibioinformatics.org/careers.htm

Tip: Join LinkedIn groups that are related to your career interest. Need help finding groups? Check out the Groups You May Like link under the Interests/Groups tab. Review the groups that professionals in your field of interest have joined and consider joining them as well.

Additional Career Consultant Recommendations:

If you are interested in 1) graduate school or 2) Medical school visit the sites below:
1) http://bit.ly/1c7fd8P
2) http://bit.ly/1dz52Nt