

What can I do with a major in Biology and Molecular Biosciences

The College of Liberal Arts & Sciences offers a BA and a BS in Biology and a BS in Molecular Biosciences. Biology is a branch of the natural sciences, and is the study of living organisms and how they interact with their environment. Biology deals with every aspect of life in a living organism and examines the structure, function, growth, origin, evolution, and distribution of living things.

Biological Sciences Website: www.kuub.ku.edu / **Molecular Biosciences Website:** www.molecularbiosciences.ku.edu

Biology majors develop the following skills:

Analysis: Evaluating effects of phenomena; Making projections from data; Examining components of problems/ideas; Reasoning logically; Categorizing data

Quantitative: Preparing statistical reports; Utilizing statistical tests to predict outcomes; Determining probabilities; Applying scientific concepts to problems; Interpreting results; Utilizing laboratory equipment

Research: Defining problems; Organizing ideas/information; Conducting studies; Designing experiments; Recording observations; Using computers for computation/simulation; Investigation; Inspecting specimens; Assessing risks; Defining expected/potential results; Identifying problems; Cataloging information

Depending on your desired career path, additional skills may need to be developed. Make an appointment with a career consultant to design your individual career development plan.

Build Skills Beyond the Classroom

- Conduct an informational interview with someone working in this area of interest
- Find volunteer work in a related area
- Find part-time employment in a similar area
- Job shadow someone working in the field
- Join related clubs, professional associations, activities, and organizations
- Obtain an internship
- Read professional journals in the field
- Work with a mentor or alum. Contact the Hawk to Hawk program at the KU Alumni Center.

Internship Websites

- Biology Internships
- Federal government internships & summer positions
- Centers for Disease Control & Prevention Internships
- Internships in Biology
- Internships USA (contact UCC for ID & password)
- KU Career Connections
- KUCareerHawk.com Internship Listings
- Pre-Med Internship Opportunities
- Science Undergraduate Laboratory Internships
- Summer Undergraduate Research Experiences - National Science Foundation

Employment Websites

- Biology Jobs
- Biology Jobs and other science jobs from *Science*
- BioSpace
- CATO Research
- CDC Jobs by Occupational Group
- Federal government positions: Full-time/ Experienced
- Federation of American Societies for Experimental Biology Career Links
- Healthcare Source.com
- Health Careers Online
- Job Opportunities in Entomology
- Jobs & Careers in Biology
- Life Sciences World
- Medzilla.com
- Nationjob Medical Site
- Pharmaceutical & Biotech Listings
- Pharma-ID.com
- Rx Career Center
- RxME, Pharmaceutical Medical Executives

Career Planning and Resources

- Action Bioscience
- Berkeley: Life Sciences Resources
- Bio Career Information from SICB
- Biology Careers Page
- Biology Career Resources
- Careers in Biological Science from AIBS
- Career Descriptions in Biology & Zoology
- CareerMD
- Careers in Forensic Science
- Careers in Genetic Counseling
- Center for Health Careers
- Health Management Careers
- Healthcare Career Resource Center
- Medical/Health Exploration
- Worldwide Nurse
- The Riley Guide: Natural Sciences

Professional Associations

- American Aquarium and Zoo Association
- American Association of Microbiology
- American Society of Forensic Sciences
- Association for Tropical Biology
- International Biometric Society
- Society for Mathematical Biology

For direct links to the above websites as well as additional information, go to: <http://www.kucareerhawk.com/careersforyoubiology>

Sample Careers for Biology Majors

Business and Industry

Communication and interpersonal skills make Biology majors well suited for:

Career Options

Biochemist
Bioengineer
Food Technician/Technologist
Industrial Hygienist
Journalist/Editor/Photographer (Science publication)
Molecular Biologist
Pest Control Consultant
Pharmaceutical Sales Representative
Retail Manager
Technical Writer
Trainer

Potential Employers

Agricultural Experiment Stations
Botanical Gardens & Arboretums
Clinics and Hospitals
Fish Hatcheries
Independent Laboratories
Industry and Laboratories (pharmaceutical, healthcare, agriculture production, food processing and safety, textile, environmental, chemical, pharmaceutical, forestry products)
Pharmaceutical Companies
Private Recreation Organizations
Private Research Foundations/Institutions
Veterinary Hospitals and Clinics
Zoos and Aquariums

Government and Public Sector

Skills in analysis and communication make Biology majors well suited for:

Career Options

Administrator, Nuclear Waste Program
Aquarist
City Recycling Manager
Environmental Protection Specialist
Food and Drug Inspector
Hunger Policy Analyst
Parasitologist
Park Ranger
Professor
Public Health Officer
Teacher (K-12)
Water Quality Inspector

Potential Employers

Agricultural Experiment Stations
Armed Services
Clinics and Hospitals
Colleges and Universities
Conservation Agencies
Fish Hatcheries
Museums
Public Health Departments

Medicine and Health

Skills in research make Biology majors well suited for:

Career Options

Administrator, HMO
Bacteriologist
Biological Researcher
Biostatistician
Data Analyst
Epidemiologist
Genetic Engineer
Health Policy Consultant
Medical Illustrator
Medical Librarian
Medical Technologist
Nuclear Medicine
Occupational Therapy
Optometrist
Pharmacist
Physical Therapy
Physician
Physiologist
Podiatrist
Toxicologist
Veterinarian

Potential Employers

Clinics, Hospitals & Medical Centers
Industry and Laboratories (pharmaceutical, healthcare, agriculture production, food processing and safety, environmental)
Private Research Institutions
Public Health Departments
Veterinary Hospitals & Clinics

Environmental

Skills in research and problem solving make Biology majors well suited for:

Career Options

Botanist
Conservationist
Curator, Botanical Gardens
Ecologist
Entomologist
Environmentalist
Fundraiser, Environmental Organization
Ichthyologist
Marine Biologist
Park Naturalist
Zoologist

Potential Employers

Fish Hatcheries
National & International Environmental Organizations
Private Research Institutions

For information on these occupations, visit the following websites: O*NET, Occupational Outlook Handbook and America's InfoNet