BIOCHEMISTRY

Biochemists are the locksmiths of life science. Use your imagination, ingenuity and understanding of the basics of living processes to unlock life’s mysteries and improve the quality of life. If you’re interested in combining the tools of biology, chemistry and genetics to fight human disease, increase the production and quality of food, and protect the environment, then a career in biochemistry is right for you.

CAREER OPPORTUNITIES

Acquire a broad knowledge of life sciences through a combination of biology, chemistry and genetic coursework while earning your biochemistry degree from the University of Missouri College of Agriculture, Food and Natural Resources. This degree will prepare you for a variety of careers, including:

▶ MEDICINE. Your biochemistry degree provides excellent preparation for the intellectual demands of the medical profession. This training includes, as part of the degree requirements, all of the science courses necessary for application to medical school or related professional fields. Many graduates of this program go on to attend medical, dental, veterinary, pharmacy or optometry school.

▶ BIOTECHNOLOGY. Some of the nation’s largest and most respected biotechnology companies employ biochemists in a wide range of specialties, including molecular biology, genetic engineering, pharmaceutical development and microbiology.

▶ AGRICULTURE. Biochemists find employment with agricultural industry companies. You may work on projects to develop new varieties of crops that resist drought and insects, produce pharmaceutical compounds or tolerate herbicide application.

▶ GOVERNMENT. State and federal agencies employ biochemists in many fields. You might research biological alternatives for reclaiming sites contaminated with radioactive material or search for ways to protect against food-borne pathogens.

RELATED MINOR

A minor in rural sociology can supplement a biochemistry degree. Gain an understanding of the processes and global context of social change, knowledge of other cultures and times, and an appreciation for the interconnectivity of social life. Explore topics such as social research, science and society, leadership in today’s world and global perspectives and realities.

Check out additional minor opportunities at cafnr.missouri.edu/academics.

72% OF STUDENTS WHO APPLY ARE OFFERED CAFNR SCHOLARSHIPS

CAREER POSSIBILITIES INCLUDE

Medical School • Genetic Counseling
• Technical Writing • Pharmaceutical Sales
• Research Development • Patent/Intellectual Property Consulting
• Product Development • Laboratory Research • FBI Forensic Science

ADVISING/MENTORING

As a student in CAFNR, you will be assigned a faculty member and/or a professional who will serve as your academic advisor. This one-on-one advisement and guidance will help you design the course of study best suited to meet your career objectives.

This personalized approach to student advising means our students are more likely to stay in college and graduate.

STAY IN TOUCH!

cafnr.missouri.edu

College of Agriculture, Food & Natural Resources
University of Missouri
HANDS-ON LEARNING

As a biochemistry student, your chances to gain hands-on experience through research and internships are almost limitless.

> UNDERGRAD RESEARCH. You can work side-by-side in the laboratory with biochemistry faculty on research in gene function and regulation, photosynthesis, cancer and recombinant DNA. More than 35 research groups are associated with the biochemistry department and experience working with these groups is available to students at every level.

The department also holds a joint-affiliation with the School of Medicine and shares faculty members with four Colleges across campus, allowing students to gain research experience in a wide variety of areas. Opportunities exist for on-campus internships and part-time employment as lab technicians.

Getting Involved

Mizzou recognizes more than 800 student organizations. In CAFNR alone there are more than 50 clubs and organizations to choose from, and each gives you the opportunity to apply what you learn in the classroom while making lifelong friends.

CAREER PLANNING

CAFNR offers Career Services tailored to help you make connections and build your professional brand. You can meet employers, prepare your resume, practice interview skills and develop your professional communication skills. More than 100 employers recruit CAFNR students each year through on-campus career events.

SCHOLARSHIPS

The College of Agriculture, Food and Natural Resources offers you one of the strongest scholarship programs at MU. About $1.3 million is awarded each year to undergraduates, ranging from $500 to $3,500 per year.

PREVIOUS INTERNSHIP HIGHLIGHTS

> ADM Alliance Nutrition, Cargill Meat Solutions
> Dow AgroSciences, Monsanto, Pfizer, Syngenta, Sensient Colors
> Beohringer Ingelheim, Meridian Medical Technologies, Sigma Aldrich
> St. Luke’s Hospital, University of Texas Health Science Center
> St. Louis Science Center, Bond Life Sciences Center, ABC Labs

INTERNSHIPS. Internships that provide you with real-world work experience also are available. Work for a crop protection company, a pharmaceutical or health sciences company, or create analytical reports of chemical disasters and effects for a government agency.

STUDYING ABROAD

The biochemistry program, together with the CAFNR Study Abroad office, offers multiple international experiences around the globe, providing you the chance to explore biological and chemical practices in other countries. The programs help you understand the global dimensions of the Missouri and U.S. agriculture, chemical and pharmaceutical industries.

Study abroad for a summer, a semester or winter break in your choice of more than 14 countries. Scholarships and loans are available for study abroad students.

GET IN TOUCH!

SCHEDULE A CAMPUS VISIT

CAFNR Office of Academic Programs
Phone (toll free): 888-682-2367
Email: visitcafnr@missouri.edu
Web: cafnr.missouri.edu

Ask questions about dual enrollment/transfers
CAFNR Advising
Phone: 573-882-8301
Email: cafnradvising@missouri.edu
Check equivalency online: admissions.missouri.edu

Learn more about the University of Missouri
MU Office of Admissions
Phone: (573) 882-2456
1 (800) 225-6075 (toll-free in MO, IL & KS)
Email: mu4u@missouri.edu
Web: admissions.missouri.edu

60% OF BIOCHEMISTRY GRADUATES WHO APPLIED WERE ACCEPTED INTO MEDICAL OR DENTAL SCHOOL

CONSIDER JOINING THESE CLUBS & ORGS!
Biochemistry Club
Pre-Med Club
CAFNR Ambassadors

Core Areas of Study

> Physical Chemistry of Biological Systems
> General Genetics
> Analytical Geometry and Calculus
> Organic Chemistry
> Macromolecular Techniques

* See catalog.missouri.edu for full curriculum.