



ROSE-HULMAN

INSTITUTE OF TECHNOLOGY



**Chemistry &
Biochemistry**

The Central Science

Chemistry and Biochemistry link together physics and mathematics, biology and medicine, and earth and environmental sciences to understand the physical universe. People with expertise in chemistry and biochemistry are essential due to the importance of chemistry and biochemistry in addressing the global needs for food, energy, medicine, and materials. Rose-Hulman has been offering a course of study in chemistry since 1889.

As a Rose-Hulman chemistry and biochemistry student, you will get a solid background in mathematics, physics, biology, humanities, and the social sciences, and combine that with hands-on, state-of-the-art experiences in all facets of chemistry and biochemistry. This multi-disciplinary training will prepare you for a career in a wide variety of fields.





Hands-on Learning

One of the major strengths of the chemistry and biochemistry program at Rose-Hulman is our ability to combine access to state-of-the-art equipment and research opportunities with the individual attention and support of a small school. Our curriculum is designed to get students into our beautiful, newly built, chemistry labs and using the latest technologies in their first year. Within a year, most students are already working closely with faculty on research project in areas such as drug discovery, environmentally sustainable chemistry practices, polymer synthesis, and the fundamental nature of chemical bonding. Our majors also get additional training during the summer through internships at companies, research universities, hospitals, or Rose-Hulman.



What You'll Learn

Chemistry and biochemistry connect to every field of science, mathematics, and engineering, so our curricula are designed to be flexible to allow students to pursue whatever interests them. In addition to training in the core areas of chemistry and biochemistry, our majors are encouraged to take courses in other areas such as biology, chemical engineering, mathematics, physics, computer science, and engineering management. Our own elective courses cover areas such as pharmacology, toxicology, green chemistry, forensic chemistry, and food chemistry. We work with every student to tailor their curriculum to their interests and career goals.



Program Details

Bachelor of Science in Biochemistry, Bachelor of Science in Chemistry.

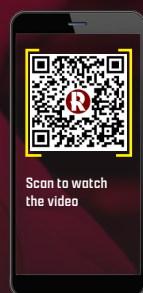
Both degrees provide the necessary courses and training for jobs or graduate school in chemistry. The biochemistry degree is for students that want to focus on the interaction of chemistry and life sciences and medicine. Our biochemistry majors attend graduate programs in either chemistry or the life sciences.

Preparation for Careers in Medicine

For students interested in pursuing a career in health care, both the chemistry and biochemistry degrees offer the ability to obtain the necessary training and courses required by professional programs in medicine, dentistry, pharmacy, and physical therapy. Students interested in medical school will meet regularly with our Pre-Health Profession Advisor to help the student determine which courses are needed for their professional program.

Double Major in Chemistry, Double Major in Biochemistry and Molecular Biology (BCMB)

Students who wish to combine their training can add chemistry or BCMB as a second major. The second major is a good option for people who wish to add deeper training in chemistry and biochemistry in addition to their first major and is popular with students coming in with transfer or advanced placement credit. Students majoring in chemical engineering, biology, biomedical engineering, mathematics, computer science, and physics have all recently added chemistry or BCMB as a second major. Minors in both disciplines are also available.



For more information on chemistry or biochemistry at Rose-Hulman, scan this code with your smartphone

Get in Touch!

**Department of Chemistry
and Biochemistry**

812-877-8166

www.rose-hulman.edu/chem

A background image of a young person with brown hair wearing large, clear safety goggles with yellow tape on the bridge. They are looking slightly to the side. The background is a bright, out-of-focus laboratory setting with glass equipment.

CHEM & BC Students at Rose

100%

Placement Rate

\$66,750

Average Starting Salary

Our graduates work at companies such as Eli Lilly, Oxford Instruments, Hitachi, Agilent, Genentech, Cummins, Sanofi, Proctor & Gamble, AstraZeneca, Marathon, Elanco, 3M, Thermo Fisher Scientific, Midwest Compliance Labs, and the Indiana Department of Toxicology.

Our graduates have pursued graduate studies at schools such as Harvard, Stanford, University of Illinois, Texas A&M, Purdue University, Indiana University, Notre Dame University, Duke University, University of North Carolina, Northwestern University, Georgia Institute of Technology, and UT-Southwestern Medical Center.

Our graduates have also been accepted into medical schools such as Indiana University, University of Kentucky, and Duke University.

*Salary and placement data from the Class of 2022.



ABOUT ROSE-HULMAN

Rose-Hulman is one of the nation's top undergraduate engineering, science, and mathematics colleges. Our 1,300-acre scenic campus is home to more than 2,200 students with a passion for STEM and learning. We are consistently rated among the best colleges and universities in the country for return on investment, internships, and career placement.

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