



Case Western Reserve University School of Medicine

Master of Science in Biotechnology

Lead at the forefront of a rapidly growing field with a Master of Science (MS) in Biotechnology from Case Western Reserve University School of Medicine. With three possible pathways to pursue—in biochemistry, neuroscience and pharmacology—this interdisciplinary degree can be applied to support your goals in multiple industries.

Gain Hands-On Experience

You'll begin the program with biotechnology core courses that offer a foundation in experimental design and hands-on training in lab techniques. You'll select one of our three specialized tracks and complete your degree with a unique internship experience to build your resume. Depending on your career goals, internships may be arranged with one of a variety of industry partners such as Abeona Therapeutics Inc, Convelo Therapeutics, GenomOncology, Haima Therapeutics, Neuronoff Inc, and Trailhead Biosystems.



Specialization Tracks

You can select your specialization when you apply to the program or after your first semester of study is complete.

Biochemistry

- Gain broad exposure to cutting-edge techniques in the biotechnology industry through extensive molecular and biochemical lab work.

Neuroscience

- Receive an introduction to the principles of neuroscience, including communication between the neurons, neural development, contemporary neuroscience research and more.

Pharmacology

- Discover the principles of pharmacology, drug-receptor theory, genetic variation in response to drugs, and contemporary drug discovery.



Application Checklist

Core Application Requirements

- Online application
- Personal statement
- Bachelor's degree from an accredited institution with a minimum 3.0 GPA (either already completed, or to be complete before you enroll)
- Unofficial transcripts
- Resume/CV
- 3 letters of recommendation
- Standardized exam (optional)
- International applicants: Results of TOEFL, IELTS or PTE

Why CWRU?

At CWRU, we're driven to educate and make an impact in our community through research, innovation and collaboration. We pride ourselves on having not just one, but five "campuses" through our partnerships with local, world-class hospital systems: Cleveland Clinic, University Hospitals, MetroHealth Systems and Louis Stokes Cleveland VA Medical Center.

As a School of Medicine student, you will gain firsthand experience in clinical and research settings and build a network for your future career. And, you'll join a culture of innovation. Our campus has been home to numerous medical advances, from the first CPR course to the creation of the first artificial chromosome.

By the Numbers

#1
medical school
in Ohio
U.S. News & World Report

#25
medical school
for research
U.S. News & World Report

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Ready to learn more? Reach out to our admissions team at ms-biotech@case.edu or scan to visit our website.



**CASE WESTERN RESERVE
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School of Medicine