UNIVERSITY OF MIAMI

MASTER OF SCIENCE
BIOMEDICAL SCIENCES

UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE

MASTER OF SCIENCE IN BIOMEDICAL SCIENCES

Looking for an edge to get you into a top notch medical or biomedical graduate school?

The Miller School of Medicine offers an intensive 10-month Master of Science in Biomedical Sciences (MiBS) designed to fit perfectly in your gap year.

MiBS is a full-time program that packs a core curriculum in biochemistry, molecular biology, cell biology, anatomy, histology, and physiology, along with several optional courses in three customized tracks—Medicine, Research or Drug Discovery. Our courses are taught by the same faculty that teaches our medical and graduate students and are tailored to meet your needs. In addition, students participate in physician and clinical shadowing and laboratory research to prepare them for a career in the biomedical sciences.

MiBS is a selective full-time program that prepares recent undergraduates for medical or graduates school or a career in the biomedical industry. Our master's degree is an ideal way to use your gap year to build credentials and experience to propel yourself to an advanced degree. Students will have access to hands-on faculty advising and mentoring to help do your best and submit compelling applications. Students begin our gap year program in July after their spring graduation and finish in May to start medical or graduate school the following August.

biomed.miami.edu/mibs

MASTER OF SCIENCE IN BIOMEDICAL SCIENCES

Inaugural Class of 2018-2019

Integrity, respect, diversity, tolerance—qualities like these define members of the UM community.

Set one foot on campus and you'll feel it—a vibe that celebrates life, learning and daily activities that are anything but routine. Capitalizing on its glorious weather, national reputation and location at the crossroads of the Americas, the **University of Miami offers students unparalleled academic support, enrichment activities galore, sports and cultural offerings, wellness and fitness programs and endless opportunities to explore, engage and better the community and the world.**

Campus life on a medical campus will be a bit of a different experience than you had as an undergraduate. Students' classroom experience extends beyond traditional lectures and into the real world of biomedical sciences. You and your peers will learn and work in laboratory settings. You will also be surrounded by clinicians, medical and public health students and take advantage of what Florida's oldest and most established medical campus has to offer.

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RANKED TOP 50 IN

BIOMEDICAL RESEARCH FUNDING

IN NIH-FUNDED MEDICAL SCHOOLS

Learn from Leading Clinicians & Researchers in the Biomedical Sciences.

The University of Miami is a top-tier research university with a world-class medical campus.

Established in 1925, “the U” is a major research university engaged in more than $330 million in research and sponsored program expenditures annually.

A private research university with more than 16,000 students from around the world, the University of Miami is a vibrant and diverse academic community focused on teaching and learning, the discovery of new knowledge and service to the South Florida region and beyond.

The Miller School of Medicine boasts cutting-edge centers of excellence in areas like neuroscience, genomics and stem cell research to add to our proven efforts in paralysis, cancer, diabetes and eye care.

Our students have access to renowned faculty, groundbreaking research and state-of-the-art resources to advance the educational mission of the Miller School – providing a learner-centered, humane and contemporary curriculum that prepares our graduates to pursue successful careers in biomedical research.

CURRICULUM

Sum

MBS 631 **Laboratory Research or Physician Shadowing**
MBS 680 **Professional Development Workshop**

Fall

MBS 600 **Journal Club**
MBS 601 **Biochemistry for the Biosciences**
MBS 602 **Molecular Biology for the Biosciences**
MBS 603 **Gross Anatomy & Histology**
MBS 604 **Advanced Molecular and Cell Biology**
MBS 631 **Laboratory Research or Physician Shadowing**

Spring

MBS 600 **Journal Club**
MBS 605 **Cell Physiology**
MBS 608 **Basic Pathobiology**
MBS 631 **Laboratory Research or Physician Shadowing**
MBS ### **Electives**

Electives (Select Two)

MBS 606 **Human Neurophysiology**
MBS 607 **Human Cardiovascular Physiology**
MBS 611 **Mechanisms of Drug Actions**
MBS 613 **Structural Biology & Drug Design**
MBS 614 **Bioinformatics for the Biosciences**

PROGRAM TRACKS

Medical Track

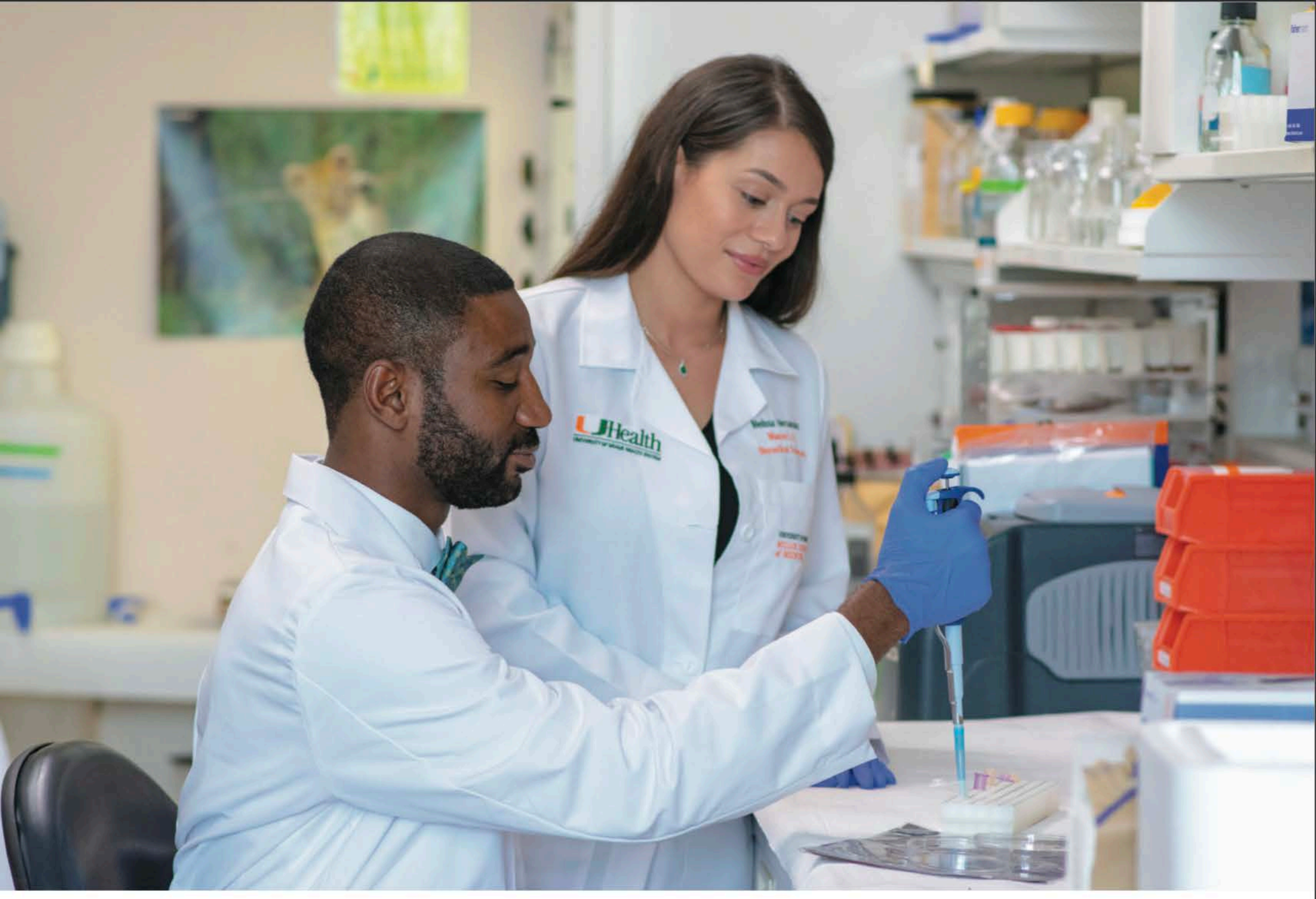
Perfect, if your goal is to go to medical school. You will take core courses that cover many of the same topics in biochemistry, molecular and cell biology, anatomy, and physiology as first-year medical students. Your performance in these courses will demonstrate your readiness for medical school. You will shadow physicians and participate in clinical research. You will also have an advisor who will provide guidance for your medical applications.

Research Track

Designed for students excited by biomedical research whose goals include earning a doctoral degree. Beyond core courses, you will choose biostatistics, bioinformatics, and other research-related courses. Laboratory research with top-notch scientists will help you develop a compelling portfolio for your application to graduate school.

Drug Discovery Track

Interested in a career in pharmaceutics? This track builds on expertise at the Miller School of Medicine in Drug Discovery. Apart from core coursework, you can choose from a variety of research- and drug discovery-related courses. Practical research in translational and screening laboratories will prepare you for the next phase of your life.



How to Apply

Application Opens : November 1st
Priority Deadline : May 15th

Application instructions are available at: **biomed.miami.edu/apply**

Qualifications

Applicants to biomedical programs should have a bachelor's degree in a biological or related discipline (e.g., psychology, chemistry, engineering, physics). Although there are no prerequisites, courses in general biology, cell/molecular biology, calculus, general physics, organic chemistry, physical chemistry and biochemistry are encouraged.

Competitive candidates will have the following:

- Excellent academic record
- Competitive GRE or MCAT exam scores
- Strong letters of recommendation
- Motivation to learn biomedical sciences
- Personal statement focused on educational interests and career goals

Tuition and Financial Aid

Costs for the MiBS program are comparable to a year of undergraduate study at a reputable private university. Financial aid is available in the form of federal and private loans. Applicants will automatically be considered for a limited number of scholarships.

University of Miami
Miller School of Medicine
Graduate & Postdoctoral Studies
305-243-6406

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biomed.miami.edu/mibs

The University of Miami, Miller School of Medicine aims to be one of the premier academic institutions leading our nation in the diversity and inclusion.