UMN-MSU BME Pathway

A year-long structured program to equip undergraduates with skills and preparation for biomedical engineering (BME) research careers
About University of Minnesota Biomedical Engineering

The University of Minnesota (UMN) Biomedical Engineering (BME) has been a national leader in innovative biomedical engineering research for more than twenty years. Their mission is to train the next generation of trailblazers who will conduct pioneering, high-impact research spanning basic science to clinical and technological applications.

UMN BME interdisciplinary research areas include:
- Computational Medicine
- Genomics & Systems Biology
- Imaging Technologies
- Medical Devices
- Immunoengineering
- Neuroengineering
- Cardiovascular Engineering
- Cancer and Tissue Engineering

To learn more about BME at the University of Minnesota, visit cse.umn.edu/bme

What is the Minnesota-Morgan State BME Pathway?

Morgan State University students will engage in mentored research with University of Minnesota faculty. The program will also implement high-impact practices that emphasize collaboration, problem-solving, data analysis, and scientific communication. The Minnesota-Morgan State BME Pathway’s mission is to demystify biomedical careers and prepare participants for future graduate studies.

Program Eligibility

Applicants must meet the following criteria:
- Be currently enrolled or have confirmed enrollment, at Morgan State University, upon start of the program
- Be a sophomore, junior, or non-graduating senior
- Major in physical, biological, or computer sciences, or engineering
  - Minimum course requirements can be found on application
- Hold a minimum cumulative GPA of 3.0 on a 4.0 scale

No prior research experience is required, but applicants must demonstrate a strong interest in BME research.

Important Dates

Application available
February 22, 2023

Application deadline
March 20, 2023

Notifications
TBD

How to Apply

For more information and to apply, contact the Office of Undergraduate Research at OUR@morgan.edu.

Curriculum

Spring 2023 - Onboarding
- Expectation setting
- Student participation in lab meetings

Summer 2023 - Research
- 10 weeks, $5,000 stipend
- Project tasks, skill-building, & data collection

*Fall 2023 - Reporting
- Student-directed data analysis and synthesis
- Scholarly publication process training

*Potential to earn course credit at home institution

Participating UMN Faculty

You will be asked to identify preferred research faculty mentors. Please review profiles and research interests of UMN BME faculty here: cse.umn.edu/bme/faculty