FRESHMAN RESEARCH IMMERSION (FRI)

WALK IN A FRESHMAN. WALK OUT A RESEARCHER!

Want to conduct cutting-edge research within the next year? Interested in working with leading researchers and tackling important global issues starting your freshman year? Binghamton University’s Freshman Research Immersion program provides first-year STEM (science-technology-engineering-mathematics) students with a research experience in sciences and engineering. Working with a team of faculty and fellow freshmen, you’ll do real research to investigate serious issues facing the world today – long before most college students get the opportunity. By the end of this innovative, three-semester program, you’ll be a tried-and-true researcher, well-positioned for success in advanced studies or your chosen career.

2015-2016 RESEARCH STREAMS

1. BIOFILMS (MICROBIOLOGY)
   Focus on biofilms that plague industry and hospitals

2. NEUROSCIENCE
   Focus on neuro-degenerative diseases

3. SMART ENERGY (CHEMISTRY-PHYSICS)
   Focus on generating and storing energy

4. BIOMEDICAL BIOCHEMISTRY
   Focus on molecular targets for treatment and delivery

5. IMAGE AND ACOUSTIC SIGNALS ANALYSIS (Computer Science-Electrical Engineering)
   Focus on multimedia, human-computer interaction, acoustics and computer vision

6. BIOMEDICAL ANTHROPOLOGY
   Focus on evolutionary medicine, in particular with reference to malaria, obesity and Lyme disease

RESEARCH STREAMS

Smart energy. Neurodegenerative diseases. Biofilms that plague healthcare and industry. Students conduct research in what are known as Research Streams, specially created courses for emerging fields in sciences and engineering. Each Research Stream has a dedicated laboratory designed and equipped for its specific type of research and supervised by a team of three to five faculty members. You’ll learn how to talk about your research, collaborate and identify your next steps in research.
IMPACT
Our research teams are attacking big-world issues – from developing clean energy to preventing neuro-degeneration to understanding climate change. You will be a valuable contributor to the solution.

GROWTH
Your personal and professional growth: turbocharged. You’ll develop critical thinking and collaborative research skills early.

ACCESS
You’ll build powerful connections with influential Binghamton professors and lay the foundation for requesting valuable letters of recommendation for scholarship, award, internship and graduate school submissions.

NETWORKING
You’ll make essential connections and build your academic credentials, which employers and graduate programs carefully evaluate.

DIRECTION
Start off on a solid foundation toward your chosen career or advanced academic studies. You’ll have a better idea of what you want to do in college and beyond.

THREE-SEMESTER COURSE SEQUENCE
Learn research techniques, acquire background on a research question and follow through on the initial phases of a real research problem.
- First semester - Research Methods
- Second and third semesters - Research Stream

OPPORTUNITIES AFTER FRI
You’ll have a wide variety of opportunities for additional research and internship experience at Binghamton University and beyond. The list of post-FRI opportunities include:
- Continued research in faculty laboratories
- Industry internships
- Collaboration with the Southern Tier High Technology Incubator
- National fellowships

INVITED INTO FRI
Students invited to enroll in the FRI program will receive a formal letter of invitation from Undergraduate Admissions.

Since space in the program is limited, we cannot guarantee that all students invited will be able to participate. Admission to the FRI program is guaranteed to students who have confirmed their intent to participate in the program by paying the Binghamton University enrollment deposit before the FRI program fills.

We anticipate that the FRI program will fill quickly, so depositing early is recommended and should be done no later than May 1. Details on how to pay your enrollment deposit will be provided when reserving your program spot.

FOR MORE INFORMATION
Learn more about FRI at binghamton.edu/fri. For questions, e-mail FRI@binghamton.edu.