MASTER OF SCIENCE IN BIOMEDICAL RESEARCH TECHNOLOGIES
Program Overview

The application of advanced technologies is a critical aspect of biomedical research. The one-year M.S. in Biomedical Research Technologies provides participants with the skills and knowledge to support research investigations in core discovery areas including:

- Micro and Nano Imaging
- Genomics
- Proteomics
- Transgenics

Program participants will gain a solid understanding of research principles, the relevance of these principles to an array of biomedical problems, and the technical skills to implement research technologies to achieve discovery goals. Graduates will be able to apply ongoing and emerging technologies to biomedical research in highly competitive research settings in the pharmaceutical industry or academia. The program also provides a solid foundation for continued education towards Ph.D. or MD degrees.

Program Highlights:

- It is one of the few programs offered that is specifically focused on biomedical research core technologies
- Program was developed with input from colleagues affiliated with leading pharmaceutical companies
- Full-time, 32-credit graduate program begins in August and can be completed in one year
- Program includes seven required courses and 2-3 elective courses as well as an 8 credit Practicum course designed to be completed over three semesters
- In the first semester, the Practicum course includes 2 research practica, each in a different core technology, followed by a Capstone project or library-based thesis that is completed over the second and third semesters
- Courses taught by world-class faculty from Boston University’s School of Medicine
- High levels of mentoring and advising provided to support each student’s success
- The degree is awarded by the Division of Graduate Medical Sciences at Boston University School of Medicine

Boston University’s mission of fostering and advancing interdisciplinary biomedical research is well reflected in the program. Our goal is to provide students with theoretical and practical knowledge related to different biomedical research core technologies used in addressing an array of pathologies, from cancer, to diabetes, to bone disease, to name a few.

Dr. Katya Ravid, Director, M.S. Biomedical Research Technologies Program, Boston University School of Medicine
Students complete 24 credits of classroom-based coursework and 8 credits of Practicum and Thesis research.

**CURRICULUM**

**REQUIRED COURSES**

**Fall Semester**
- Biological Core Technology: 3 credits
- Biochemistry/Cell Biology: 6 credits
- Organ System Disease: 2 credits

**Spring Semester**
- Elementary Biostatistics: 2 credits
- Molecules to Molecular Therapeutics: 2 credits
- Biological Core Technology - Practicum: 4 credits

**Elective Courses**
- Evidence Based Dentistry: 2 credits
- Ethical Issues of Bioscience: 3 credits
- Cultural Formation of the Clinician: 3 credits
- Fundamentals of Biotechnology: 2 credits
- Biostatistics with Computing: 4 credits
- Microbiology: 4 credits
- Head and Neck Anatomy: 3 credits
- Medical Pharmacology: 4 credits
- Biostatistics: 2 credits
- Pathology and Pathophysiology of Disease: 4 credits
- Infectious Diseases: 4 credits
- Fundamentals of Biotechnology: 2 credits

**Summer Semester:**
- Capstone Project: Continuing Student
Admissions

You can apply to the program any time after September 1, 2016. Applications are reviewed on a rolling basis and applicants will be notified of their acceptance within four to six weeks. To be considered for admission for Fall 2017, your application must be completed by June 1, 2017.

Application Requirements

- To be eligible for admission, students must have completed a Bachelors degree from an accredited college or university in biological, biomedical or biotechnology sciences, including a passing grade in Organic Chemistry and/or Biochemistry or Molecular Biology

- We also require applicants to submit test scores from either the Graduate Record Examination (GRE), the Medical College Admission Test (MCAT), or the Dental Admission Test (DAT)

- Applicants whose native language is not English must complete the TOEFL exam

- To apply to the program, please visit bu.edu/gms and click on Admissions

Tuition, Financial Aid and Student Resources

For the 2016-2017 academic year, the tuition cost for full-time students is $24,588 per semester. Students who take courses in the summer term pay $1,537 per credit. Tuition costs are determined by the Boston University Board of Trustees and are subject to change on annual basis. Students in the program may also incur additional costs for transportation, academic supplies, personal costs and housing.

The Financial Aid Office at Boston University’s Division of Graduate Medical Sciences is available to assist students in identifying sources of financial support including graduate and research assistantships, fellowships, and federal loans.

The BU Office of Housing Resources provides information regarding housing, transportation, and Boston neighborhoods. For more details, www.bumc.bu.edu/gms/biomedicalresearchtech

For more information about the Biomedical Research Technologies program please contact:

Dr. Louis Gerstenfeld
Program Co-Director
72 E. Concord St., Evans Building E243
Boston, MA 02118
617-414-1660
lgersten@bu.edu

www.bumc.bu.edu/gms/biomedicalresearchtech