



Boston University School of Medicine
Graduate Medical Sciences



Ph.D. PROGRAM IN BIOMEDICAL SCIENCES

Conduct cutting edge research while exploring focused areas for your doctoral dissertation



Ph.D. PROGRAM IN BIOMEDICAL SCIENCES

Find your research passion at Boston University's School of Medicine

Boston University's Program in Biomedical Sciences offers rigorous training, facilitating interdisciplinary study across academic departments and research fields.

As a participant, you'll have the opportunity to take courses, rotate through laboratories, engage in research, collaborate with colleagues, participate in journal clubs and attend seminars. The program's goal is to provide dynamic learning experiences that will inform your research interests and career goals while meeting the NIH initiative to encourage training across scientific and medical disciplines.

Complete foundation courses and use electives to focus on areas of interest

During your first year you'll complete Foundations in Biomedical Sciences coursework. This integrated Ph.D. curriculum, supported by multiple departments, provides basic knowledge across many core disciplines.

Required Courses

- Protein Structure, Catalysis & Interaction
- Structure and Function of the Genome
- Architecture & Dynamics of the Cell
- Mechanisms of Cell Communication
- Professional Skills
- Professional Development Skills

Enter into one of ten departments or programs to complete your doctoral studies

Working closely with a faculty advisor, you will develop an individual learning plan tailored to achieve specific research and professional goals. After selecting a laboratory, you will join the program/department with which your mentor is affiliated and continue advanced studies towards doctoral candidacy.

Departments/Programs

- Biochemistry
- Biophysics
- Genetics & Genomics
- Immunology
- Microbiology
- Molecular & Translational Medicine
- Nutrition & Metabolism
- Oral Biology
- Pathology & Laboratory Medicine
- Physiology



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Explore study and career opportunities across a broad array of research fields

Aging
Cancer Biology & Hematologic Disorders
Cardiovascular & Pulmonary Disease
Cell Dynamics & Architecture
Cell Signaling
Development & Regenerative Biology, and Stem Cells
Genetics and Gene Regulation
Genomics & Computational Biology
Oral and Craniofacial Biology
Immunology
Inflammation & Inflammatory Diseases
Microbial Systems & Host-Pathogen Interactions & Infectious Diseases
Neurodegenerative Disorders
Nutrition, Obesity, Diabetes & Related Metabolic Diseases
Physiology & Pathophysiology
Proteomics & Glycomics
Structural Biology & Molecular Biophysics
Vaccine Development

Benefit from exceptional mentoring and professional development

As a student in the program you will build proficiencies and professionalism through course and laboratory work, seminars and conferences, and unique hands-on learning opportunities that are only available in a medical hub like Boston.

You will receive a high level of attention from faculty who are committed to doctoral student success. This is evidenced by both the “Fair Expectations” policy that they have created in collaboration with students and alumni, as well as the tremendous success that so many Ph.D. students at the School of Medicine have gone on to achieve.

Massachusetts ranks second in the U.S. for NIH grant funding

With three medical schools, two schools of dentistry and seven of the U.S. top-ranked hospitals, medical centers, and specialty care facilities, Boston offers rich career opportunities for Ph.D. candidates. The greater Boston area is also one of the largest for biopharmaceutical companies, and industry where job growth increased by 38% from 2008 to 2014.

APPLICATION DEADLINE: DECEMBER 2ND



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Admissions Requirements

Applicants to the Ph.D. Program in Biomedical Sciences are required to submit:

- An unofficial transcript from each college or university attended (official transcripts are required upon matriculation)
- A minimum of three letters of recommendation from faculty members in your proposed field (your application can be submitted without these letters)
- A Personal Statement of no fewer than 200 words that describes your qualifications and the objectives of your intended educational program
- Test of English as a Foreign Language (TOEFL) for applicants whose native language is not English or who did not complete their degree from an English speaking institution
- International Student Data Form for international applicants

What makes a competitive PhD applicant?

The program seeks candidates who have meaningful research experience and a strong record of academic achievement. We are committed to providing a holistic review of each individual's candidacy, an approach that gives equal weight to all application components.

Each participating student is fully funded

As a Ph.D. student at Boston University School of Medicine you will receive a full scholarship to cover tuition, fees, and health insurance. You will also earn a yearly stipend (as of September 2019) \$35,000. International students may be subject to different taxes based on their status.

For more information please contact:

pibs@bu.edu

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