



Boston University School of Medicine
Graduate Medical Sciences



PhD PROGRAM IN **BIOMEDICAL SCIENCES**

Gain foundation knowledge, conduct cutting edge research and explore professional development opportunities to enable achieving your career goals.



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 PhD 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

You will also have the opportunity to choose from a variety of elective courses.

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
- Orofacial & Skeletal Biology
- Pathology & Laboratory Medicine
- Physiology





PhD PROGRAM IN BIOMEDICAL SCIENCES

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

- 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.

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 PhD students at the School of Medicine have gone on to achieve.

APPLICATION DEADLINE: DECEMBER 1ST





Ph.D. PROGRAM IN BIOMEDICAL SCIENCES

Admissions Requirements

Applicants to the PhD Program in Biomedical Sciences are required to submit:

- An unofficial transcript from each college or university attended (official transcripts are required upon matriculation)
- Three letters of recommendation
- A personal statement
- Test of English as a Foreign Language (TOEFL) or IELTS for applicants whose native language is not English or who did not complete their degree at an institution in an English-speaking country
- 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 considers all application components. We seek candidates with diverse backgrounds and life experiences.

Each participating student is fully funded

Financial assistance in the form of tuition and health benefits as well as a living stipend of \$36,782/year (starting in Fall, 2021) is available to students in the PiBS PhD program.

For more information please contact:

For more information go to:

bumc.bu.edu/gms/pibs/

Boston University School of Medicine
Graduate Medical Sciences
72 East Concord Street, Suite L-317
Boston, MA 02118

