

# Department of Pharmaceutical Sciences



Prepare for a variety of academic, government, and industrial careers in drug discovery, development, profiling/evaluation, and delivery.

## Program Overview

Customize your graduate program with the option to specialize in pharmacology, medicinal chemistry, pharmaceuticals, nanotechnology, neurosciences, pharmacokinetics, toxicology, imaging, and immunology.

Get in-depth research experience with access to five Centers of Research Excellence at Northeastern specializing in drug discovery, nanomedicine, biotechnology, cancer research, translational neuroimaging, and conditions related to inflammation.

Master's program provides preparation for related PhD programs.

## Program Information

- Full-time or part-time
- 2 years MS, 5 years (average) PhD
- Learn on campus in Boston with flexibility to continue working
- Choose from four MS and PhD interdisciplinary options:

**Biomedical Sciences:** Focus on areas across the biomedical sciences to gain training in human (patho)physiology and the application of existing and potential therapeutic approaches to treating disease

**Medicinal Chemistry:** Integrate aspects of contemporary medicinal chemistry and pharmacology to the design, synthesis, and profiling of potential therapeutic molecules

**Pharmaceutical Sciences:** Develop and apply the technologies for bringing small-molecule drugs and biological therapies directly to the target cells responsible for many major diseases

**Pharmacology:** Gain exposure to both classical and recent approaches that have led to the development of current theories of drug action and therapeutic mechanisms of drug action in biological systems

## Accreditation



For more information about this program

[bouve.northeastern.edu/pharmsci](http://bouve.northeastern.edu/pharmsci)  
[PharmSciGrad@northeastern.edu](mailto:PharmSciGrad@northeastern.edu)

## Admission Requirements

- A baccalaureate degree or its equivalent in biology, chemistry, medical technology, pharmacy, chemical engineering or a related field
- At least two semesters of undergraduate courses (or their equivalent) in each of the following: mathematics (including calculus), biology, physics, biochemistry, and organic chemistry
- GRE Test Score of 300 or higher Quantitative and Verbal combined, writing score 3.5 or higher, the GREs are optional for MS applicants and required for PhD applicants

## Curriculum

With four Master of Science and four Doctor of Philosophy options, our interdisciplinary graduate programs empower students to focus on more than one area in biomedical science. Graduates are well-equipped to develop careers in academic and big-pharma/biotech research and development, both within and outside the laboratory.

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CITED RESEARCHERS AROUND THE  
GLOBE