New York University recently established state-of-the-art biotechnology programs with a focus on efforts that integrate the life sciences with physical, bioengineering, and computational science. The NYU Biomaterials Program has significant strengths in biosensors, 3D bio-printing, bio-imaging, bone-soft tissue interfaces, bio-inspired materials synthesis, dental implants, and biomechanics, among other research areas. These programs create bridges among nanotechnology, medicine, dentistry, nursing, and bioengineering by emphasizing the development of a new biomaterials base for enhanced human health.

**ACADEMIC PROGRAM**

The mission of the program is to provide education and training in biomaterials science and immersion in state-of-the-art technology, while ultimately contributing to improving human health through biomaterials-based treatment modalities.

The Department of Biomaterials offers a Master of Science (MS) degree in Biomaterials Science in two options:

- **Thesis option:** Represents a challenge to students in managing course work while designing and completing a thesis research project. Completion of the MS program in Biomaterials Science requires 36 credit hours of course work as well as completion and acceptance of a research thesis based on the student’s original work.

- **Non-thesis option:** In lieu of a thesis, the student will be required to conduct an Independent Project in Biomaterials. Completion of the MS program in Biomaterials Science, non-thesis option, requires 40 credit hours of course work, two credit hours of which will be utilized for the student’s independent project.
Message from the Chair

"Welcome to the NYU Department of Biomaterials, where we are building on a proud tradition of creating new biomaterials that impact oral and systemic health. As a recently expanded health sciences and innovation center, we are powering modern health care by utilizing new technologies, next generation materials, novel processes, and high performance biosensor systems to improve the health and health care access of people suffering from diabetes, cardiac heart disease, oral cancer, and other significant conditions.

We invite you to join us as we develop new health management technologies designed to enhance the delivery of high quality, affordable health care on a global level."

John T. McDevitt, PhD
Professor and Chair

RESEARCH AREAS

The newly configured NYU Biomaterials program looks to build bridges among nanotechnology, dentistry, nursing, and bioengineering with an emphasis on development of a new biomaterials base for enhanced human health.

- Integrate the life sciences with physical, bioengineering, clinical, dental, and data sciences
- Next generation biosensors
- Mobile health
- Bio-imaging
- 3-D printing
- Bone-soft tissue interfaces
- Bio-inspired surface modifications and materials synthesis
- Dental implants
- Bulk nanometric material synthesis
- Mechanics of materials
- Inorganic analysis

CORE FACILITIES

- CardiacScoreCard Testing Facility
- Biologic 3D Printing Facility
- Electron Microscopy
- X-ray Imaging and X-ray Diffraction
- Light Microscopy
- Mechanical Characterization
- Materials Characterization
- Biomaterials Synthesis and Histology Preparation
- Tissue Culture and Animal Facility

To learn more and to apply, visit:
http://dental.nyu.edu/academicprograms/masters-degree-programs/biomaterials.html
Application deadline: July 1st for Fall admission