Bachelor of Science in Bioengineering

http://engineering.temple.edu/department/bioengineering

The mission of Temple University’s new Department of Bioengineering is to provide our students with a comprehensive education and a world class research experience that joins engineering, the life sciences and medicine to promote scientific discovery and develop new technologies and products that will benefit humanity.

Bioengineers graduating from our program will have a solid foundation in both engineering and life sciences, as well as a strong sense for translational biomedical research. Our students will be trained to understand and employ in a real world setting basic and applied knowledge from diverse areas of engineering and sciences, such as thermodynamics, biomechanics, bioinformatics, bioimaging, bioprocessing, fluid mechanics, polymer chemistry, biomaterials, as well as cellular, molecular and regenerative engineering.

This knowledge will enable our graduates to join and lead interdisciplinary teams of engineers, scientists and clinicians to solve fundamental problems in the world around us. These problems include the design of innovative medical devices and diagnostic equipment, smart biomaterials, renewable bioenergy, ecological engineering, and other areas that improve the quality of global health care and the standard of living throughout the world.

Program Highlights:

- Faculty nationally recognized for teaching, research, and service to the profession
- Newly renovated, state-of-the-art research facilities (ca. 20,000 square feet) are second to none in the entire city of Philadelphia
- Collaborations with the Health Science campus (School of Medicine, School of Dentistry, School of Pharmacy, Shriner’s Hospital) and the Fox Chase Cancer Center

Areas of Research:

- Soft tissue injury mechanics
- Target drug delivery
- Brain-computer interface
- Tissue engineering
- Regenerative medicine
- Imaging methods to assess native and engineered tissues
- Biomaterials
- Stem cell engineering
- Engineering implantable biomedical devices

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