

## Department of Bioengineering

Bioengineering is a branch of engineering which applies the principles and methods of engineering and the physical and chemical sciences to life and the medical sciences in order to understand, define and solve the problems of Medicine, Physiology and Biology. Since 2003, the Department of Bioengineering has offered a postgraduate program as the Bioengineering Division at the Science Institute and in 2007 a PhD program was added. Our department began offering a graduate program in the 2007-2008 academic year within the framework of the Faculty of Chemical and Metallurgical Engineering, becoming the second department of its kind among state universities.



The Department of Bioengineering aims to educate its students in the principles and technology of engineering; instrumentation, materials, diagnostic and therapeutic designs; artificial organs and other equipment required in the field of medicine; and the determination of new principles in the structure and functions of living systems.

The department carries out research in the fields of Biopolymers, Artificial Vaccines, Enzyme Stabilisation and Regulation, Enzyme Reactions, Medicine Transport Systems, Medicine Design, Biomaterials Development and Characterization, Gene Cloning and Protein Engineering, Biosensors/Biochips, Improvement of Diagnostic Methods in Medicine, Cell Culture and Tissue Engineering, Stem Cell Research, Chemotherapy and Cryopreservation. In addition, work in the framework of projects towards the demands and requirements of the public and private sector, supported by DPT, TÜBİTAK, YTU Research Fund and international resources are carried out at the department.

The academic staff of the Department of Bioengineering includes 2 professors, 1 associate professor, 4 assistant professors, 2 research assistants holding PhDs, 13 research assistants and 6 project bursars from various disciplines including Chemistry, Chemical Engineering, Biology, Molecular Genetics, Physics and Medicine.

### Contact

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