



**BAŞKENT
UNIVERSITY**



ENGINEERING FACULTY

*Başkent University commemorating the
100th year of the Turkish Republic*

MISSION

Our mission is to educate students to become productive engineers with investigative, research-oriented, analytical, and integrative mindsets who can develop creative and innovative solutions with an impact. In line with the basic principle of Başkent University - **Scientific knowledge accumulates here and then spreads out from us** - science - related studies are conducted to improve humanity's technological, socioeconomic, and cultural level and to promote and expand community services.

HISTORY

Between 1996 and 2017, the Engineering Faculty had six departments: Electric-Electronics, Computer, Industrial, Mechanical, and Biomedical. The civil engineering department was added in the 2017-2018 academic year, and the first students were admitted to the program in 2019. The Faculty of Engineering, with a 30 thousand m² indoor area, is equipped with modern technology and generates its own energy through solar panels. Facilities include 74 laboratories, two technical drafting rooms, 36 classrooms, four amphitheater-style lecture halls, five conference rooms, an engineering museum, and an engineering gallery. With the help of up-to-date Engineering Programs, our students are trained to be professional engineers who can develop technology and are ready for the Industry 4.0 revolution.



NATIONAL AND INTERNATIONAL ACCREDITATIONS

Computer, Biomedical, Electric-Electronics, Industrial, and Mechanical Engineering programs have **MÜDEK accreditation**, and **EUR-ACE** quality label. Our graduates are entitled to the same rights and privileges as graduates of EU countries, America, Australia, Japan, Korea, Malaysia, Venezuela, and many other countries. Within the **ERASMUS** exchange program framework, our students find education and training opportunities at nineteen different universities in the EU.

ENGINEERING MUSEUM

"**Engineering Museum**," which presents advances in engineering and technology in chronological order, was designed and put into service. The museum includes various technological artifacts from every field of engineering and social life.

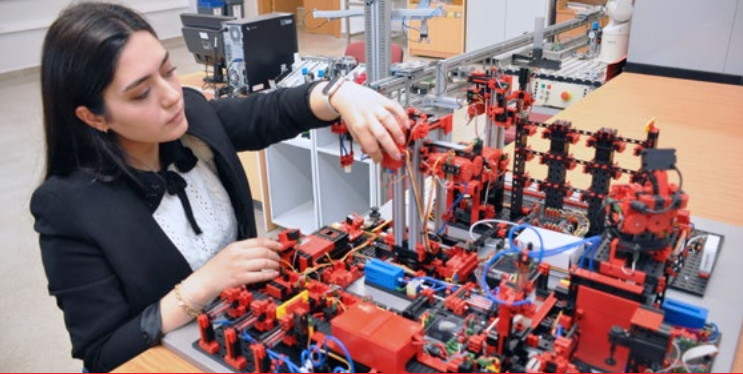
FABLAB-BUTÖLYE

Butölye workshops conducted in the **FAB-LAB** environment aims to raise awareness of science and technology among younger age groups.



COMPUTER ENGINEERING

Computer vision, bioinformatics, image processing, health informatics, data mining, software engineering.



INDUSTRIAL ENGINEERING

Design of complex production and service systems, industry 4.0 applications, communication and energy distribution networks. Artificial intelligence, vehicle routing and logistics system designs, advanced manufacturing technologies, advanced manufacturing systems, and operations research applications in healthcare systems.



MECHANICAL ENGINEERING

Energy engineering applications, renewable energy, turbine and blade design, advanced materials technologies, robotic systems, autonomous vehicles, and artificial intelligence applications.

CIVIL ENGINEERING

Structural engineering, earthquake engineering, structural reliability, investigation of characteristics of earthquake ground motions, avalanche and flood analysis, coastal engineering, analysis and modelling of concrete dams under seismic loads, transportation engineering, building information modeling (BIM), construction management informatics, geotechnical engineering.



BIOMEDICAL ENGINEERING

Biomedical signal processing, imaging technologies, biocompatible material technologies, optical imaging, nanotechnology, and biosensors.



STUDENT CLUBS

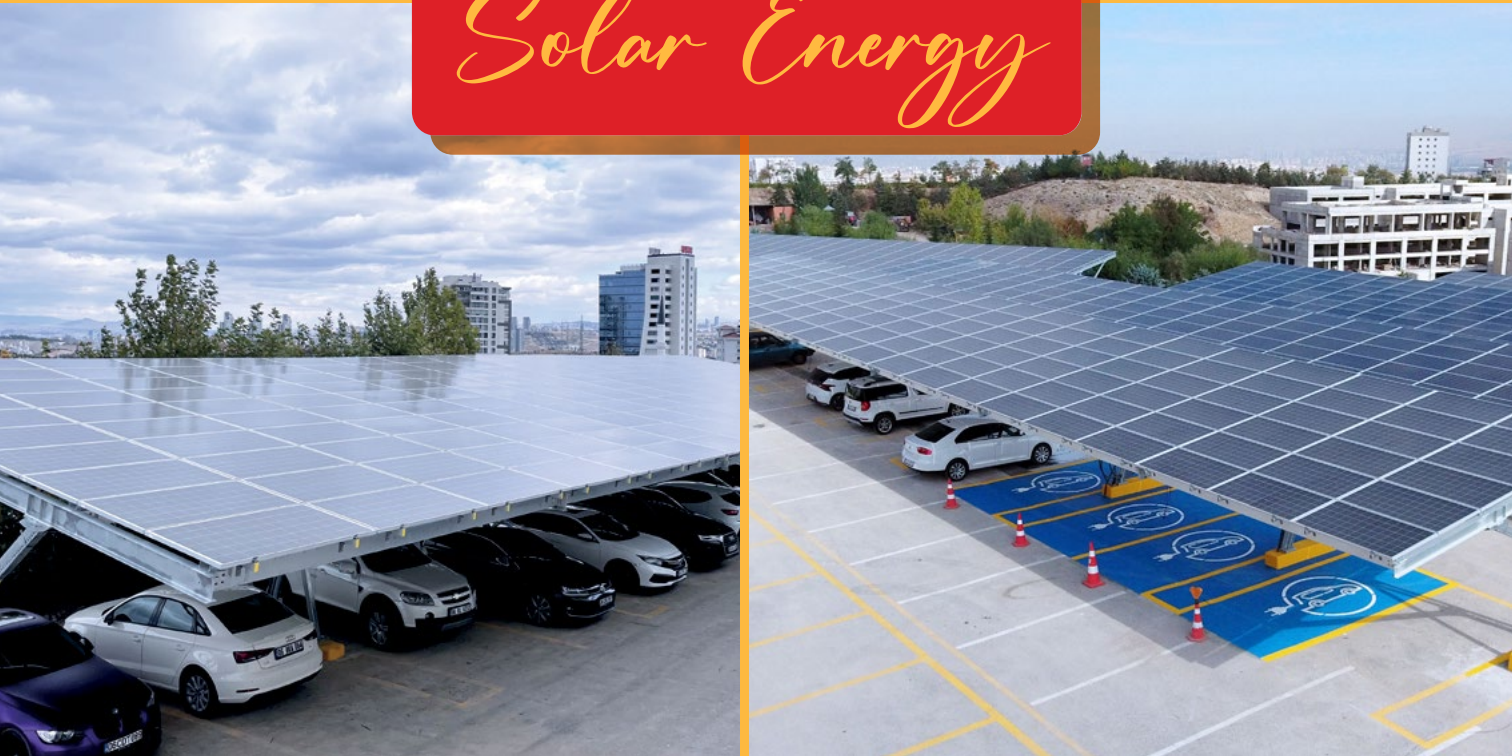
Our Model Satellite Team ranked fourth in the competition organized and supported by NASA in 2022.



ELECTRIC-ELECTRONIC ENGINEERING

RF/Microwave components and antenna structures and propagation, communication, radar and electronic warfare systems, automatic control systems, communication and network technologies, artificial intelligence (Neural Networks, Fuzzy Logic), deep learning applications, image processing and signal processing, laser beam forming.





Largest solar power plant installed at a university campus

Turkey's largest Carport Style Solar Power Plant

Roof (flat and sandwich panel) and carport (with seven different designs) construction types

4 electric car charging stations.

Solar power generation capacity to meet annual energy need of the campus

**BAŞKENT UNIVERSITY
POWERED BY
*Solar Energy***



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