BME 2030
A University shaping the future
The primary goal of the Budapest University of Technology and Economics (BME) is to contribute to the national processes of value creation and to strengthen economic competitiveness with its outstanding competencies, scientific results, and knowledge assets. Through its education, research, and development activities, BME creates an intellectual base and scientific powerhouse that inspires students to achieve internationally recognized excellence. The university gives them the ambition for creation and innovation across the country.

The excellence of the eight faculties of BME in their own fields of expertise provides a unique multidisciplinary knowledge background, which

- creates a university knowledge asset that is relevant to global and domestic challenges, enhancing security, a sustainable future, and contributing to economic development and competitiveness.
- ensures that university education and R+D+I activities are the „engine” for the development of domestic companies, providing efficient knowledge transfer and an adequate supply of development engineers.
- achieves the effective institutional development of the University, aiming at a BME that is significantly advancing and recognised in international rankings.
- identifies the technological breakthrough opportunities that Hungary can exploit to move rapidly and significantly forward in international innovation rankings (e.g. Global Innovation Index).
- enables the pursuit of research of international excellence in a given field, thereby contributing to the development of science and raising the international reputation of our country.
- provides the professional background to solve technical problems in companies quickly and efficiently, and through industrial cooperation, helps innovative results to get into the economic cycle as soon as possible.
1782
Joseph II signs the founding charter of the Institutum Geometrico Hydrotechnicum.

1872
Károly Zipernowsky, one of the founders of the Hungarian power electrical engineering industry, begins his studies at the university.

1899
Alfréd Hajós, the first Olympic champion of the university and of Hungary, obtains his degree in architecture.

1920
Eszter Pécsi, the first female engineer, graduates.

1971
Dénes Gábor is awarded the Nobel Prize in Physics for his discovery of holography.

1967
Ernő Rubik jr., game designer and inventor, receives his degree in architecture.

1963
Jenő Wigner, chemical engineer, is awarded the Nobel Prize in Physics.

1994
György Oláh, a chemical engineer and former lecturer at the BME, is awarded the Nobel Prize in Chemistry.

2012
The first Hungarian-built small satellite, Masat-1, is completed, followed by SMOG-P in 2019, also developed at the BME.

2022
The developers of the mRNA vaccine capsule are inspired by the "Gömböc", the discovery of Gábor Domokos and Péter Várkonyi, university professors.

2023
Ferenc Krausz, the former student and researcher of BME is awarded the Nobel Prize in Physics.
Today, more than 1,200 faculty members and nearly 22,000 students are working day-by-day at the eight faculties of BME to help the university in achieving its strategic objectives.

Faculty of Civil Engineering
Faculty of Mechanical Engineering
Faculty of Architecture
Faculty of Chemical Technology and Biotechnology
Faculty of Electrical Engineering and Informatics
Faculty of Transportation Engineering and Vehicle Engineering
Faculty of Natural Sciences
Faculty of Economic and Social Sciences
SCIENTIFIC EXCELLENCE:

- Strengthening international marketing
- Increasing the number of patents
- Advancing in rankings
- Cooperation between large companies and SMEs
- National Laboratories, KK and TKP2021 projects
- Horizon Europe projects, ERC grants
- Q1-D1 communications
- Measures to improve quality of life
- Measures to improve affordability of life
- Assistance to regions inhabited by Hungarians beyond our borders
- Increasing the number of international students
- New training programmes in English
- European University Alliance, EELISA
- Family-friendly university
- Career models
- Talent management, contact with secondary schools
- BME Innovation Ecosystem
- BME Integration
- R+D+I and Social Mission
- Educational Excellence
- International Relations
- Integrative University

UNIVERSITY INTEGRATIVE SCIENTIFIC EXCELLENCE MISSION
The BME’s goals and vision build on the preservation and further development of the university values and point to a viable future.

**OUR MISSION**

Excellence in science and engineering, in the service of society: educating open-minded students in a creative higher education setting. Social responsibility in the communication and application of the results of science and technology. Providing a mutually inspiring creative environment for students, lecturers, and researchers.

**OUR VISION**

Effectively implementing the four pillars of modern university engagement: providing excellent educational programmes with digital content and educational analytics that support student outcomes, conducting cutting-edge research, implementing effective innovation processes, and ensuring that these elements are managed in an ecosystem-like and sustainable way.

**OUR VALUES**

Excellent students, lecturers, and researchers: four Nobel laureates in the university alumni community, students participating in excellence programmes, and internationally recognized lecturers.

Leader in research and education: with its 22,000 students, BME is the leading technical higher education institution in Hungary, spearheading the development of engineering, economics, and natural science. BME is ranked in the top 5% of international rankings and the top 200 in international discipline rankings.

International and regional excellence: BME is an internationally excellent institution, which is at the forefront of contributing to the development of modern technologies in the Central European region. It builds partnerships with universities and the academic community in regions inhabited by Hungarians beyond our borders.

Industrial relations: BME streamlines innovation with its knowledge assets derived from its research results and diverse industrial collaborations, increases the competitiveness of domestic companies and the national economy, and is an active player in open innovation processes.

Social commitment: Based on its scientific and development potential, BME plays a transformative role in addressing the challenges of modern society, builds community, and brings people closer to science and culture.
FOCAL POINTS

Building on 240 years of existence and value creation, the BME expands and nurtures national knowledge and strengthens social values and stability by:

R+D+I

New scientific results and efficient technology transfer in
- digitalization
- materials sciences
- energy
- sustainability
- the health sector.

EDUCATION

Providing competitive knowledge for future technologies
- strengthening links with secondary schools and promoting engineering, natural science and IT
- increasing the output of graduates
- meeting business needs
- restructuring the training structure
- increasing the number of doctoral students.

INNOVATION

Providing effective support
- for start-ups
- innovation-driven businesses
- SMEs
- large companies.

SOCIAL RESPONSIBILITY

An open university at the service of society
- open doors, lively laboratories
- cultural events
- citizen involvement
- smart campus, smart Újbuda.