

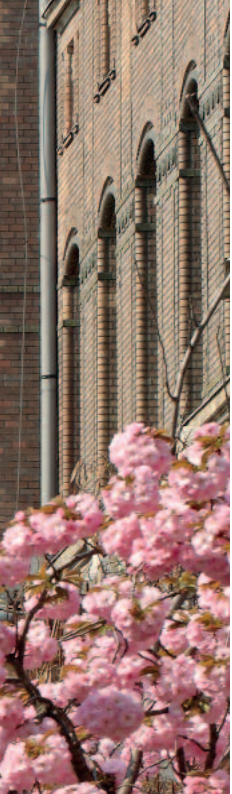


BUDAPEST
UNIVERSITY
OF TECHNOLOGY
AND ECONOMICS









EXPERIENCE AND TRADITION
IN HIGHER TECHNICAL EDUCATION



The Budapest University of Technology and Economics (BME) is a leading institution in technical higher education in Hungary, the degrees of which are recognised and acknowledged all over the world. On the basis of the competencies and roles of the university BME is a key role player in strengthening the competitiveness and sustainable development of the country. We do our best to present our institution to the society as a research university performing environment-friendly and people-centred technological and economical innovation. BME's mission is to convey corresponding knowledge and skills in high-quality, develop students' long-term competencies, create new knowledge and through all these enhance useful and applicable values for the society. In order to fulfil its mission the university aims to implement programmes and operate mechanisms that keep the institution on the track of sustainable development of values and potentials.



The eight faculties of the Budapest University of Technology and Economics have their individual characters but they all educate professionals who have strong theoretical knowledge base in natural sciences and at the same time they study about the latest trends in economy and their own specialities, therefore they have a systematic approach to processes and problems.

At our university, besides training in Hungarian, programmes in English language are available in all educational areas and in certain specialities German and French language programmes are also offered. In student exchange BME has cooperation agreements with 240 educational institutions of 45 countries of the world.

In the European Union development programmes (FP6, FP7) BME has reached a nationally outstanding result with an average of 16 projects launched annually during the 2007–2013 funding period. In the newly started Horizon 2020 Framework Programme our six priority research areas are highlighted. Researchers of BME are successful in applying for ERC grants as well so that 3 projects have been started out of which 2 have already been successfully completed.





The university is always open to partnership initiatives and all forms of professional cooperation with regards to the benefits of potential synergies. A part of such cooperation programmes aim at conveying educational culture – with regards to the 235 years’ experience and tradition in training – and others’ function is to elaborate and manage interdisciplinary programmes and endeavours. BME has all the necessary capacity and expertise to participate in and contribute to the networks and networking cooperation built by the European Centres of Excellence.

JÁNOS JÓZSA RECTOR



BME IN NUMBERS, 2016

YEAR OF FOUNDATION 1782

NUMBER OF FACULTIES 8

NUMBER OF BSC PROGRAMMES 20

NUMBER OF MSC PROGRAMMES 42

NUMBER OF DOCTORAL SCHOOLS 13

FULL-TIME TEACHING STAFF 999

FULL-TIME RESEARCHERS 176



NUMBER OF STUDENTS BSc/BA 16170 | MSc/MA: 5469 | PhD/DLA: 480

NUMBER OF FOREIGN STUDENTS 1310

PROPORTION OF STUDENTS BY EDUCATION FORM Full time 84,9 % | Part time 15,1 %

PROPORTION OF STUDENTS BY FINANCING SOURCE State funded 67,3 % | Self-financed 32,7%

PROPORTION OF STUDENTS BY LEVEL OF QUALIFICATION

BSc/BA 68 % | Msc/MA 23,3 % | 5-year MA 6,3 % | PhD, DLA 2,4 %

ANNUAL BUDGET 32 billion HUF, 50% governmental subvention, 50% independent income,
(education activities 35%, tendering operations 25%, industrial/commercial projects 16 %, other 24%)



1782 INSTITUTUM GEOMETRICO-HYDROTECHNICUM

1850 JOSEPH INDUSTRIESCHULE

1856 JOSEPH POLYTECHNICUM

1871 ROYAL JOSEPH TECHNICAL UNIVERSITY

1934 JOSEPH PALATINE OF HUNGARY UNIVERSITY OF TECHNOLOGY AND ECONOMICS

1949 BUDAPEST UNIVERSITY OF TECHNOLOGY

2000 BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS

1782

1848

1860

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1939

1946

1949

1950

1951

1956

1963

1971

1975

1978

1984

HISTORY TIMELINE

1782 Predecessor of the Budapest University of Technology and Economics was called Institutum-Geometrico Hydrotechnicum, founded by Emperor Joseph II on 2 August 1782 to train engineer surveyors and hydraulic engineers. It was the first civil engineering institution in Europe where students were taught technical sciences in university organization

1782 Faculty of Civil Engineering

1848 University Library

1860 OPTICAL LENS SYSTEM FOR MODERN PHOTOGRAPHY

1861 DYNAMO, ÁNYOS JEDLIK

1867 University Choir

1871 After several organizational reforms and changes of the name of the institution Royal Joseph Technical University was created in 1871, the first higher education institution for technology which was called 'university'

1871 Faculty of Mechanical Engineering

1873 Faculty of Architecture

1873 Faculty of Chemical Technology and Biotechnology

1885 TRANSFORMER, DÉRI-BLÁTHY-ZIPERNOVSZKY

1893 CARBURETOR, DONÁT BÁNKI

1895 HUNGARIAN PARLIAMENT BUILDING, IMRE STEINDL

1896 University Symphonic Orchestra, the first one of the world at a university that has no faculty of music




1985
1991
1992
1994
1998
2000
2006
2009
2010
2012
2017

1896 ALFRÉD HAJÓS, ARCHITECT, THE FIRST OLYMPIC CHAMPION OF HUNGARY 1897 Technical University Athletic and Football Club, the oldest university sports club of the country 1901 Royal Joseph University was officially entitled to confer doctoral degrees. The first doctoral degree in technology was issued in 1902 1909 First honorary doctor (Doctor honoris causa) title 1909/10 University was moved into the historical buildings of its present Campus, the most outstanding of which is the central building designed by Alajos Hauszmann, characterised by an imposing exterior on the World Heritage Site Danube Bank of Budapest 1917 First doctoral degree in economy 1923 ELECTRIC LOCOMOTIVE, KÁLMÁN KANDÓ 1929 TELEVISION, DÉNES MIHÁLY 1939 Institute for Continuing Education in Engineering, the first European institution of the type (MTI) 1946 MOON-RADAR EXPERIMENT, ZOLTÁN BAY 1949 Faculty of Electrical Engineering and Informatics 1950 SUPERSONIC FLIGHT, TÓDOR KÁRMÁN 1951 Faculty of Transportation Engineering and Vehicle Engineering 1956 Demonstration in the aula of the central building of 22 October, which played a considerable role in launching the 1956 revolution 1963 NOBEL PRIZE IN PHYSICS, JENŐ WIGNER 1963 University theatre Szkéné 1971 NOBEL PRIZE IN PHYSICS, DÉNES GÁBOR 1975 RUBIK'S CUBE, ERNŐ RUBIK 1978 A CULTURAL HISTORY OF PHYSICS, KÁROLY SIMONYI 1984 English language engineering education 1985 Master

level MBA 1991 French language engineering education 1992 German language engineering education 1994 DLA degrees 1994 **NOBEL PRIZE IN CHEMISTRY, GYÖRGY OLÁH** 1998 Faculty of Natural Sciences 1998 Faculty of Economic and Social Sciences 2000 The official name of the institution changed to Budapest University of Technology and Economics, the abbreviation BME is used in this form in all languages 2000 UNESCO Chair title for MTI 2006 Bologna Education System 2006 **GÖMBÖC, GÁBOR DOMOKOS AND PÉTER VÁRKONYI** 2009 Technology and Knowledge Transfer Office 2010 Title of Research University 2012 **FIRST HUNGARIAN SATELLITE, MASAT-1** 2012 New Sports Centre 2016 **FIRST SAPPHIRE DIPLOMA IN THE HISTORY OF THE UNIVERSITY (SÁNDOR TARICS)** 2017 235th Anniversary of the foundation of the BME





FACULTIES AND DEPARTMENTS

FACULTY OF CIVIL ENGINEERING (ÉMK) | Founded in 1782 | <http://www.epito.bme.hu>

Department of Geodesy and Surveying | Department of Construction Materials and Technologies | Department of Photogrammetry and Geoinformatics | Department of Engineering Geology and Geotechnics | Department of Structural Engineering | Department of Structural Mechanics | Department of Highway and Railway Engineering | Department of Hydraulic and Water Resources Engineering | Department of Sanitary and Environmental Engineering

FACULTY OF MECHANICAL ENGINEERING (GPK) | Founded in 1871 | <http://www.gpk.bme.hu>

Department of Materials Science and Engineering | Department of Fluid Mechanics | Department of Energy Engineering | Department of Building Service Engineering and Process Engineering | Department of Machine and Industrial Product Design | Department of Manufacturing Science and Engineering | Department of Hydrodynamic Systems | Department of Mechatronics, Optics and Information Engineering | Department of Applied Mechanics | Department of Polymer Engineering

FACULTY OF ARCHITECTURE (ÉPK) | Founded in 1873 | <http://www.epitesz.bme.hu>

Department of Construction Technology and Management | Department of Architectural Representation |
Department for History of Architecture and of Monuments | Department of Building Energetics and Building
Services | Department of Building Constructions | Department of Industrial and Agricultural Building Design |
Department of Public Building Design | Department of Residential Building Design | Department of Design |
Department of Mechanics, Materials and Structures | Department of Urban Planning and Design

FACULTY OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY (VBK)

Founded in 1873 | <http://www.ch.bme.hu/en>

Department of Applied Biotechnology and Food Science | Department of Physical Chemistry and Materials
Science | Department of Chemical and Environmental Process Engineering | Department of Organic
Chemistry and Technology | Department of Inorganic and Analytical Chemistry



FACULTY OF ELECTRICAL ENGINEERING AND INFORMATICS (VIK) | Founded in 1949 | <https://www.vik.bme.hu>

Department of Automation and Applied Informatics | Department of Electronics Technology | Department of Electron Devices | Department of Networked Systems and Services | Department of Control Engineering and Information Technology | Department of Measurement and Information Systems | Department of Computer Science and Information Theory | Department of Broadband Infocommunications and Electromagnetic Theory | Department of Telecommunications and Media Informatics | Department of Electric Power Engineering

FACULTY OF TRANSPORTATION ENGINEERING AND VEHICLE ENGINEERING (KJK)

Founded in 1951 | <http://kozlekedes.bme.hu>

Department of Material Handling and Logistics Systems | Department of Automobiles and Vehicle Manufacturing | Department of Vehicle Elements and Vehicle-Structure Analysis | Department of Control for Transportation and Vehicle Systems | Department of Transport Technology and Economics | Department of Aeronautics, Naval Architecture and Railway Vehicles




FACULTY OF NATURAL SCIENCES (TTK) | Founded in 1998 | <http://www.ttk.bme.hu>

INSTITUTE OF PHYSICS | Department of Atomic Physics | Department of Theoretical Physics | Department of Physics | Department of Cognitive Science | **INSTITUTE OF MATHEMATICS** | Department of Algebra | Department of Mathematical Analysis | Department of Differential Equations | Department of Geometry | Department of Stochastics | **INSTITUTE OF NUCLEAR TECHNIQUES** | Department of Nuclear Techniques | Department of Nuclear Energetics

FACULTY OF ECONOMIC AND SOCIAL SCIENCES (GTK) | Founded in 1998 | <http://www.gtk.bme.hu>

INSTITUTE OF APPLIED PEDAGOGY AND PSYCHOLOGY | Department of Ergonomics and Psychology | Department of Technical Education | Centre for Learning Innovation and Adult Learning | **INSTITUTE OF ECONOMIC SCIENCES** | Department of Environmental Economics | Department of Economics | **INSTITUTE OF SOCIAL STUDIES** | Department of Philosophy and History of Science | Department of Sociology and Communication | Center of Physical Education | **INSTITUTE OF BUSINESS SCIENCES** | Department of Management and Corporate Economics | Department of Finance and Accounting | Department of Business Law | Center of Modern Languages | BME Language Examination Centre



EDUCATION

FACULTY OF CIVIL ENGINEERING

- BSc in Civil Engineering
- MSc in Structural Engineering | MSc in Infrastructural Engineering | MSc in Land Surveying and Geographical Information Systems Engineering

FACULTY OF MECHANICAL ENGINEERING

- BSc in Mechanical Engineering | BSc in Mechatronics Engineering | BSc in Energy Engineering | BSc in Industrial Design Engineering
- MSc in Mechanical Engineering | MSc in Mechanical Engineering Modelling (in English) | MSc in Mechatronics Engineering | MSc in Energy Engineering | MSc in Industrial Design Engineering | MSc in Building Service and Process Engineering

FACULTY OF ARCHITECTURE

- BSc in Architecture
- Five year integrated architect education
- MSc in Real Estate Development Architecture | MSc in Structural Architecture | MSc in Architecture |

FACULTY OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY

- BSc in Chemical Engineering | BSc in Biochemical Engineering | BSc in Environmental Engineering
- MSc in Chemical Engineering | MSc in Biochemical Engineering | MSc in Environmental Engineering |
MSc in Pharmaceutical Engineering | MSc in Polymer and Textile Technology Engineering

FACULTY OF ELECTRICAL ENGINEERING AND INFORMATICS

- BSc in Electrical Engineering | BSc in Computer Science Engineering
- MSc in Electrical Engineering | MSc in Computer Science Engineering | MSc in Business Information Systems |
MSc in Biomedical Engineering

FACULTY OF TRANSPORTATION ENGINEERING AND VEHICLE ENGINEERING

- BSc in Transportation Engineering | BSc in Vehicle Engineering | BSc in Logistics Engineering
- MSc in Vehicle Engineering | MSc in Logistics Engineering | MSc in Transportation Engineering

FACULTY OF NATURAL SCIENCES

- BSc in Physics | BSc in Mathematics
- MSc in Physics | MSc in Applied Mathematics | MSc in Mathematics | MSc in Cognitive Studies

FACULTY OF ECONOMIC AND SOCIAL SCIENCES

- BA in Business Administration and Management | Engineering Management BSc | Vocational Technical Instruction BSc | BA in International Business Economics | BA in Finance and Accounting
- MA in Economic | Master of Business Administration | MSc in Marketing | MA in International Economy and Business | MSc in Finance | MSc in Regional and Environmental Economic Studies | MSc in Accountancy | MSc in Management and Leadership | MSc in Engineering Management | Teacher of Engineering MA | Teacher of Economics MA | MA in Communication and Media Studies | MA in Psychology





DOCTORAL SCHOOLS

Royal Joseph University was officially entitled to confer doctoral degrees in 1901. The first doctoral degree in technology was issued in 1902, the first honorary doctor (Doctor honoris causa) title was given in 1909 and the first doctoral degree in economy was issued in 1917. After the change of regime in 1989, the system of scientific qualifications changed and therefore, since 1994, PhD and DLA degrees have been awarded by the Senate of the university. BME has the largest number of professors who are also full members of the Hungarian Academy of Sciences among Hungarian research universities and universities of national excellence.

PÁL VÁSÁRHELYI DOCTORAL SCHOOL OF CIVIL ENGINEERING AND EARTH SCIENCES
GÉZA PATTANTYÚS-ÁBRAHÁM DOCTORAL SCHOOL OF MECHANICAL ENGINEERING
CSONKA PÁL DOCTORAL SCHOOL (ARCHITECTURAL ENGINEERING)
DOCTORAL SCHOOL OF ARCHITECTURE (DLA)
GEORGE A. OLAH DOCTORAL SCHOOL OF CHEMISTRY AND CHEMICAL TECHNOLOGY
DOCTORAL SCHOOL OF INFORMATICS
DOCTORAL SCHOOL OF ELECTRICAL ENGINEERING
KÁLMÁN KANDÓ DOCTORAL SCHOOL (TRANSPORTATION AND VEHICLE ENGINEERING)
DOCTORAL SCHOOL OF PHYSICS
DOCTORAL SCHOOL OF MATHEMATICS
DOCTORAL SCHOOL OF PSYCHOLOGY
DOCTORAL SCHOOL OF BUSINESS AND MANAGEMENT
DOCTORAL SCHOOL OF PHILOSOPHY AND HISTORY OF SCIENCE



EXCHANGE PROGRAMMES

The largest number of students taking part in 1-2 term exchange programmes are participating in the Erasmus programme of the European Union.

In accordance with the priorities of the European Union the university emphasizes facilitating and supporting student exchange and participation in international scientific cooperation programmes, which are primary issues for all the departments and faculties of the institution. To facilitate international student exchange admission of foreign students has been simplified and services for them have been improved.

FOREIGN LANGUAGE EDUCATION

BME has been offering English language engineering training since 1984, French language programmes since 1991 and German language programmes since 1992. This latter is organized in cooperation with the University of Karlsruhe, therefore at graduation students receive the joint degree of the two universities. The Master level MBA programme was launched for the 20th time this year; among the foreign language courses this is the only complete degree programme fully in French language, completed with an original French degree.





RESEARCH-DEVELOPMENT-INNOVATION

RESEARCH UNIVERSITY

The Research University title awarded to BME in 2010 is an acknowledgement that the university is able to find innovative and creative solutions in various research and development areas, invent and manufacture new products and perform outstanding research and development activity besides providing high-quality education in technology for students, who are suitably prepared both for their professional careers and also for business and management activities.

THE UNIVERSITY'S COMPREHENSIVE RESEARCH STRATEGY INCLUDES SIX PRIORITY RESEARCH AREAS

Sustainable energy | Vehicle technology, transportation and logistics | Biotechnology, health and environment protection | Nanophysics, nanotechnology and materials science | Intelligent environment and e-technologies | Disaster prevention: modern engineering methods

PROJECT APPLICATIONS

BME is very active in submitting applications for project funding both in Hungarian and international scenes; among higher education institutions of the country the university has launched the largest number of research and development projects directly funded by the European Commission since 2009.

RESULTS OF BME IN FP7

In the European Union's Research and Innovation funding programme, terminated in 2014, the Budapest University of Technology and Economics was the most efficient institution in Hungary with 113 successful projects and 22.5 million Euro funding. Regarding the number and value of the applications submitted, Hungary was the 16th among all countries of the European Union, receiving 0.75% of the total funding budget. During the 7-year cycle of the programme altogether 37.348 million Euros were spent on research and development projects in the member states of the European Union. BME had on average 16 successful projects per year; 60% of the programmes were submitted in the Specific Programme 'Cooperation'. The university was the most active in the field of ICT, transportation and nanotechnology.



IN FEBRUARY 2015 THE UNIVERSITY WAS RUNNING 9 SUCCESSFUL PROGRAMMES
WORTH ALTOGETHER 1.7 MILLION EUROS

FIWING 5G (Marie Skłodowska-Curie/ITN-ETN) | EuroCIPS (ICT) | GreenPlay (EE) | PROSPECT, FLOW (MG)
CORONA II (NFRP) | MANTIS (ECSEL) | Smartpolis, EPIC (WIDESPREAD/Teaming)



TECHNOLOGY AND KNOWLEDGE TRANSFER

The six priority research areas, the harmonic system of the service-type innovation programmes and the close and active cooperation with the investment environment altogether create an innovation ecosystem, which empowers the university to become a significant partner for cooperation in Hungary with leading multinational companies.

BME TECHNOLOGY AND KNOWLEDGE TRANSFER OFFICE (MTTI) facilitates the transfer of research results achieved at BME into business and industry, and disseminates innovation culture among the citizens of the University. MTTI's clear objective is serving scientists and creating an environment in which the parties' mutual interest is to utilise the R&D results.

<http://tti.bme.hu>

DEMOLA, located at BME VIK, has an international pool of young talents from all fields of science, university partners with the latest research, and an award-winning innovation platform to guarantee real results. 'Building the World's Strongest Innovation Ecosystem', Demola is an international organization that facilitates co-creation projects between university students and companies, either locally or internationally.

<http://budapest.demola.net>

THE SMARTPOLIS KNOWLEDGE CENTRE (SKC) recently established *under the Horizon 2020 program of the EU* is currently working on the preparation of the building up the Budapest Centre of Excellence for Smart Cities based on the innovation capacity, know-how and expertise of BME and project partners. SKC contributes to inform about creation, knowledge transfer, as well as research, innovation and deployment projects in the Central and Eastern European region to reach the European goals defined by Horizon 2020.

<http://smartpolis.eit.bme.hu>

EIT DIGITAL The mission of the EIT Digital Budapest Associate Partner Group is to give a boost to the development of an innovative ICT ecosystem in Hungary and in Central and Eastern Europe, being the only EIT Digital centre located in this region. The EIT Digital Budapest Associate Partner Group is a consortium of two local universities – namely, Eötvös Loránd University with its Faculty of Informatics and Budapest University of Technology and Economics with VIK under the management of EIT – and their leading industrial partners.

<http://budapestictnetwork.elte.hu>

CLIMATE-KIC is the European knowledge and innovation community specializing in climate change mitigation and adaptation. They create new partnerships to integrate research, business and technology, to transform innovative ideas into new products, services and jobs.

<http://www.klimainnovacio.hu/en>





BME is an active and reputable member of leading European organizations of higher education institutions for technology, participates in international university and engineering associations and professional bodies and takes a key role in initiating cooperation among technical institutions of the Central and Eastern European region. BME has a bi- or multilateral agreement with 125 institutions from 58 countries from all over the world.

BME IS MEMBER OF THE FOLLOWING INTERNATIONAL ORGANIZATIONS

4TU Rectors' League of technical universities of Budapest, Vienna, Bratislava and Prague

CEEPUS Central European Exchange Program for University Studies | <http://www.ceepus.info>

ATHENS Advanced Technology Higher Education Network/Socrates | <http://www.athensprogramme.com>

AUF Agence Universitaire de la Francophonie | <http://www.auf.org>

CESAER Conference of European Schools of Advanced Engineering Education and Research | <http://cesaer.org/en/home>

**COOPERATION PLATFORM OF CENTRAL AND EAST EUROPEAN
METROPOLITAN UNIVERSITIES OF TECHNOLOGY**

EAIE European Association for International Education | <http://www.eaie.org>

EUA European University Association | <http://www.eua.be>

INEER International Network on Engineering Education and Research | <http://www.ineer.org>

SEFI European Society for Engineering Education / Société Européenne pour la Formation des Ingénieurs | <http://www.sefi.be>

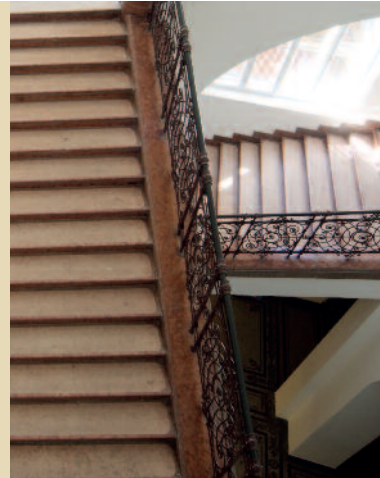
T.I.M.E ASSOCIATION Top Industrial Managers for Europe | <https://www.time-association.org>



RANKINGS

BME programmes are listed in numerous professional world rankings. In all QS University Rankings by Subject BME is the best university in Hungary and it is the 254th in Engineering and Technology subject. The university actively contributed to creating the European Union's U-Multirank listing published in spring 2014 for the first time by providing data about its courses and results. The university has been awarded excellent rating in several categories

<http://www.bme.hu/ranking>





THINGS TO SEE AND DO AT THE BME

1 | Library, founded in 1848, the largest technical scientific collection of the country. In the large, imposing halls of BME OMIKK library and information centre over 2 million books and printed journals, 9.000 electronic journals, 15 databases for professional literature and 120.000 standards, textbooks, essays and dissertations are available for professionals of research and development. In the seven reading halls of the library there are 520 seats and 100.000 volumes on open access shelves. | <http://www.omikk.bme.hu>

2 | The first symphonic orchestra of the world founded at a university that has no faculty of music was created in 1896 under the name of Technical University Orchestra. The predecessor of the Technical University Choir, operating since 1952, was founded in 1867. Another special actor of the cultural life of the university is Székény Theatre, which is presently the only theatre company belonging to a university. | <http://www.szkenet.hu> | <http://zenekar.bme.hu>

3 | BME is very proud of its students' sport achievements, mainly its 19 Olympic champions, from among Alfréd Hajós was the first Olympic champion of Hungary. Over half of our present students do sports regularly, which is an outstanding ratio even in international comparison. The university has several independent sports teams at the faculties and student hostels and also operates the oldest

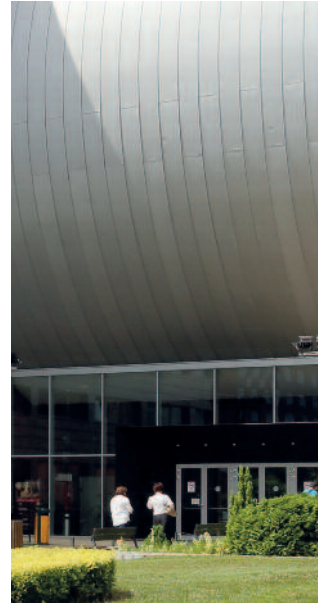




university sports club of the country, the Technical University Athletic and Football Club (MAFC) founded in 1897. Students of the university have been successfully participating in university and college championships and national competitions in various individual and team sports. | <http://www.mafc.hu> | <http://www.uj.tnt.bme.hu>

4 | The largest job fair in Hungary with a 20 year history at the BME, is organised twice a year in spring and autumn attracting extensive media attention. On the job fair not only technical positions but jobs requiring qualifications in economy, informatics, logistics and natural sciences are also offered by leading companies and significant operators of the economy. | <http://www.allasborze.bme.hu>

5 | The second largest festival of Budapest (BME University Days) has almost two decades' history in 2015, at the event besides the most popular Hungarian musicians, performers from abroad also entertain visitors of the festival. The BME University Days is traditionally the closing event of the summer festival season. The programme of the festival includes the university sports day and volunteer programmes in cooperation with the local council and community. | <http://www.egyetemnapok.bme.hu>









Budapest, 2016



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