HUNGARIAN UNIVERSITY OF AGRICULTURE AND LIFE SCIENCES

III CALLER II

Basic information about Hungary $\rangle\rangle$

Area: 93.030 sq km Population: 9.7 million Capital: Budapest Official language: Hungarian Currency: Hungarian forint, HUF Climate: Dry continental with four seasons Neighbouring countries: Austria, Croatia, Slovakia, Slovenia, Serbia, Romania, Ukraine EU Member State since: 1 May 2004 Member of the Schengen zone since: 2007

Welcome message

ounded on the 1st of February 2021, the Hungarian University of Agriculture and Life Sciences (MATE) has become one of the largest and oldest agriculturalfocused, multi-disciplinary tertiary education institutions in Europe, which came into being by the integration of the former Szent István University, Kaposvár University, Gyöngyös Campus of Eszterházy Károly University and Georgikon Faculty of University of Pannonia.



As a dynamic institution, MATE is committed to offer the students complex and market-oriented knowledge which is competitive anywhere in the world. Thus we consider lessons learned from the most successful European universities, combine our methods with state-of-the-art solutions, and enhance our international integration, to design the best programmes for our students.

MATE

Our university has campuses in Budapest, Gödöllő, Gyöngyös, Kaposvár and Keszthely, we offer constantly revised degree and training programmes and invest significantly into making our institution competitive on the global front.

Our University boasts a unique architecture and infrastructure of our campuses as well as beautiful lawns which create a pleasant ambience and provide a conducive environment for our students.

Prof. Csaba GYURICZA

Rector



Higher education has recently been facing dramatically changing expectations in a rapidly changing environment worldwide, which have their impacts on the Hungarian higher education as well. Universities are expected to meet local and global needs, to be excel in education, to encourage and nurture research, to develop partnerships with the industry and to foster innovation, which means existing for the public benefit in brief.

With the foundation of MATE, our university has become part of the renewal of the complete Hungarian higher education. MATE's long-term objective is to be amongst the thirty best agricultural higher education universities in the world while being the flagship of Hungarian

agricultural education. This commitment dovetails nicely with the past traditions of the Hungarian agriculture and present opportunities of the Hungarian higher education, and it will also contribute to the economic development of the whole country.

Why study at MATE?

MATE has established a strong **partnership** with nearly 300 universities to facilitate the mobility of students and staff for study, research and training. It is consistently ranked among the top Hungarian universities for both volume of mobility flows and quality. MATE was the first university to receive the E-Quality award from the National Ministry of Education in 2004 for the success in the Erasmus mobility programme and won the International Cooperation Culture award in 2013. In 2019 MATE was acknowledged in two categories, receiving the highest scores in student services within the Stipendium Hungaricum programme and our university was the most successful higher education institution in Hungary within the International Credit Mobility scheme considering the total grant amount (over 2 million EUR) between 2015-2020.

MATE welcomes a wide range of exchange students from our partner institutions within the **Erasmus+**, **Erasmus+ Credit Mobility** and **CEEPUS Programmes** and under the scope of bilateral agreements from countries outside the European Union. Our aim is to offer a study or training opportunity to all interested students with at least 4.0 grade average.

Further information on exchange possibilities:

en.uni-mate.hu international@uni-mate.hu

Numerous disciplines

The experts of tomorrow should seek a tri-fold balance – vibrant environment, beautiful landscape and healthy food – in order to achieve sustainability and quality in the fields of agricultural production.

Our degree programmes are offered in a wide variety of subjects ranging from:

- » Agricultural, environmental and food sciences
- >>> Horticulture
- >>>> Oenology
- >>>> Water and renewable energy management
- » Landscape architecture and mechanical engineering
- >>> Rural development

Programmes are available at all levels from Bachelor to the Doctor of Philosophy (PhD).

MATE's long tradition of research and innovation lays the foundation for the University's educational and institutional excellence.

Our teaching staff

In our institution there are over 450 professional lecturers who hold academic degrees in PhD and other higher qualifications to deliver the best programmes.

International relations

At MATE, we understand the importance of internationalization and have therefore introduced a variety of extra-curricular activities that will promote cultural assimilation. Thanks to our visionary leadership, we also boast of a strong partnership base in almost all the continents with over 250 active bilateral agreements with partner universities in nearly 60 countries. This makes it possible for students and staff to acquire and share knowledge through exchange programmes in order to better succeed in the globalized world. We see this as the cornerstone for a more secure future and are proud to be a vital part of it.



Mission

As one of the largest agricultural-oriented, multidisciplinary tertiary institutions in Central Europe, our mission is to provide world-class education that offers our alumni a promising career and makes them competitive on the job market.



Our areas of specialization include:

- » Teaching and research of food source production
- >>> Food quality and safety
- » Water and soil as strategic resource
- » Environmental protection and sustainability
- Energy security
- » Bioeconomy

Buda Campus

Idyllic campus in the heart of the Capital



Located in Buda Arboretum, Buda Campus not only has beautiful architecture but is also easily accessible from Budapest city centre by tram, bus or metro.

Courses offered in this campus include:

- » Agricultural Biotechnology
- Food Engineering
- >>> Horticultural Engineering
- Landscape Architecture and Garden Design



A key player on the food science market

As the world's population is expected to grow from 7 billion to 9 billion by 2050, food demand is predicted to rise by 70 percent, causing a significant increase in demand for processed food. Consequently, there is an anticipation in a bid to meet the dietary demand of the growing global population, new challenges will arise and necessitate the discovery of new technologies by food and bioengineers.

In this light, we recommend Buda Campus, which is recognized as the strongest tertiary education actor in the Hungarian food sector, because of its close relations with local and international market-leading companies.





The most profitable agricultural sector

Nature's pharmacy is mainly composed of compounds found in plants. However, gardening also pleases the eye and heals the soul, there is also a rapidly growing demand for functional foods, health preserving vegetables and fruits, grapes and medicinal herbs recently discovered or used by our ancestors.

Arboretum, teaching facilities, botanical garden

The 7.5-hectare Buda Arboretum with several thematic collections serving as a kind of living textbook provide a unique basis for learning and practical teaching. Experimental and Research Farm in Soroksár gives home to all the branches of horticulture, i.e. ecological farming, tree nursery, plant breeding and field cultivation.



Research in viticulture

Climate change has proven to be an area of concern in viticulture. Research has shown that common grape varieties often have poor tolerance to extreme weather conditions, which give rise to new pathogens and pests that damage their fruits. At Buda Campus, one of our core areas is to undertake scientific research to develop solutions to viticultural problems.



A unique programme

Our human environment is largely impacted by landscapes, urban open spaces, green spaces and the geographical placements of settlements. To improve the aesthetics of these settlements, expert knowledge is required in the following areas:

- » Landscape and urban design
- » Planning and development
- » The renewal of abandoned or demolished areas
- ✗ Garden design

Students can choose from any of these unique programmes, offered only at Buda Campus and acquire relevant expertise that will set them up for their professional future.

Georgikon Campus

Campus with a long history

Georgikon Campus has an outstanding agricultural, cultural and historical value for Keszthely which is located at Lake Balaton. The predecessor of Georgikon Campus was the first agricultural tertiary institution in Hungary and Europe, and is still a prestigious symbol of Hungary's agricultural tradition. Amazing facilities on this campus include a farm for practicals. The campus has been undertaking education and research since its foundation. If you choose to study at Georgikon Campus, you get to enjoy a good view of Lake Balaton; the main campus attraction also known as the Hungarian Sea.



Georgikon Days, Keszthely Plant Protection Forum

Georgikon Days Scientific Conference, which has been taking place since 1958 has recently been focusing on sustainability, competitiveness, food security and climate change. Students will have the opportunity to meet professionals from various sectors such as agricultural production, services, trade, administration and research for impactful and life changing interactions.



Lakeshore water sports facilities

At lakeshore campus, aquatic sports are the main attraction in the University's sport life and the hype of Keszthely. In addition to aquatic sport training, students can also use the gym for workouts. The youthful ambience at lakeshore campus stems from these sporting activities and annual participation in Balaton Regatta and several other championships.

Yellowing is the term given to the oldest student tradition in Hungary that first took place in 1884 at Georgikon Campus. Graduates go to serenade their favourite professors and instructors. Dressed in fancy dresses, they hold a fun jug ceremony and then say goodbye to their beloved city and university with a torchlight procession.

Research and development

Georgikon Campus focuses on the development of genetic bases using traditional and biotechnological methods, which are also integrated and environmentally friendly crop production and plant protection technologies, geared at sustainable development. The study of the connections between Lake Balaton and agricultural production, and other related research in rural development, tourism, agricultural sociology and social sciences is an added advantage.



Kaposvár Campus



The treasure of Somogy

After the turn of the Millennium, the agricultural and pedagogical knowledge centres in Kaposvár were extended with the school of economics, special needs, social sciences, arts and humanities. The campus facilities and infrastructure were also adjusted and improved to accommodate the increased number of students. Having existed for over 40-years, Pannon Equestrian Academy and Bőszénfa Game Management and Landscape Centre is the home of the largest red deer farm in Hungary, an integral part of Kaposvár Campus.

Test-tube calves born on Campus

The staff of the Embryo Transplant Centre on Kaposvár Campus were the first team in Hungary to succeed in having test-tube calves born from live cattle using the oocyte retrieval and fertilization methods under strict laboratory conditions. Thanks to this approach, three Murray Grey calves out of six implanted embryos were born in August 2020.





Laboratory networks

The Agricultural and Food Science Laboratory Network developed according to the 'farm to fork' approach, encompasses every aspect of raw material production for food in plants and animals.



Advanced learning in Economics

The aim of introducing Economics as a programme in Kaposvár is to train decisive, responsible, open-minded professionals who are able to perform excellently in both international and domestic economic environments. To this end, it is essential to deliver this programme in a very advanced approach.



Early childhood education - Complete programme

Teacher training in Kaposvár Campus contributes significantly to teacher training education in the region. In addition to its regional role, we have an outstanding and unique training portfolio in Hungary. We also offer a complete range of programmes in the early childhood education field.



Art and art mediation programmes

Art and art mediation programmes on Kaposvár Campus in Hungary also include designer making, media and performing arts. This workshop represents and shows the ideas and creative approaches for community developments. These are very necessary for intellectuals and creative people who contribute to changing the socio-economic environment.



Károly Róbert Campus 📎

Campus at Mátra Mountains

The modern and accessible Gyöngyös Campus attracts students due to its tradition in agricultural education as well as the modern knowledge offered in the fields of economics and informatics. Currently, we boast of having a tenth of freshmen who are international students.



Research in Kompolt

Research into Hungarian plant breeding at Kompolt operates under very unique ecological conditions. According to the experience of several generations of experts at Rudolf Fleischmann Research Institute, Kompolt is a favourable location for plant breeding because of the proximity of the North Hungarian Mountains, its rain shadow, and its harsh winter weather.



Climate protection

Tass-puszta Study Farm of Károly Róbert Campus, has been operating a biomass heating plant for almost a decade. Experiments on the burning of energy crops or agricultural waste are being conducted here. Additionally, this facility provides the warmth needed to grow tomatoes and peppers in the 2,000-square-meter hydroponic greenhouse.





A great variety of degree programmes

The most popular courses in the field of agricultural sciences for bachelor and master programmes are in rural agricultural engineering, higher-level vocational trainings in medicinal plants, aromatics and spices, as well as in viticulture and winemaking. This has been made possible as a result of the campus being located in Mátra Wine Region. Other popular courses include economics-related courses such as finance and accounting, trade and marketing, business administration and management courses.

Arboretum with literary atmosphere in Erdőtelek

The estate became the property of Dr. József Kovács in 1845, who established a botanical garden there. There are more than 1,200 species of trees, shrubs and perennials revealing the magical world of different flora in the 25.5-hectare area. Visitors can admire the old and new collections of the garden on 6 hectares year round.

Exercise for health

Gyöngyös Campus has always been of great convenience when it comes to physical activities; thanks to the proximity of Mátra Mountains which provide an excellent location for these purposes. There have been several day trips and other programmes organized, such as a garbage collection tour to clean a frequently used route, a trip to St. Anne's Chapel on Sár Hill, sports days and bicycle tours on International Sports Day.



Szent István Campus

University campus with a good location

Szent István Campus is located in Gödöllő City, with many available services ranging from a post office, a pharmacy, grocery stores and clinics. It is one of the largest university campuses in the country, where agricultural, technical and economic university programmes are offered. The campus can be reached by two railway lines and also by car from Budapest, which takes approximately 25 minutes.

Land is the largest workbench

Hungarian agriculture has been the fastest expanding sector within the European Union. Agricultural production involves the management of natural resources, the protection of the environment, wildlife, drinking water, soil, air and the landscape. The results of agricultural research on this campus have contributed to improving the quality of life, the competitiveness and profitability of production, as well as environmental management.







Smart agriculture

The use of state-of-the-art smart tools can help farmers in solving problems of modern agriculture; however, an innovative farming mindset is also necessary for the widespread use of artificial intelligence systems. The introduction of precision farming tools promises longterm returns and therefore requires a future-oriented approach. At Szent István Campus, we educate in these fields to raise experts who will contribute to the knowledge in agricultural methods and practices.

Rural development

Increasing the demand on settlements and the quality of life in rural areas are critical issues in our world today. The rural development programmes offered on campus focus on how the development of these settlements can be enhanced using novel project approaches.

Cooperative training

As an institution, we do not only believe in theory but also in practical application of theories. This is why we have designed our programmes in such a way that in addition to acquiring theoretical knowl-edge, students receive practice-oriented training on the field. We have made this possible through our strategic partnerships and collaborations with relevant companies, thereby giving our students the opportunity to spend their final semesters as engineering interns in these companies. This experience prepares our students for a good and lucrative profession and makes them competitive on the job market.





State-of-the-art technology in laboratories

Our students are also free to participate in research work in our very well equipped departments in the following areas:

- » Traditional vehicle engineering
- » Energetics
- Materials science
- Mechanical engineering technology
- Computer science engineering and agricultural informatics
- Drone technology and robotics

Degree programmes in English

Bachelor programmes (7 semesters)

- Food Engineering
- Horticultural Engineering
- Landscape Management and Garden Construction Engineering

》 Gödöllő 🕊

- Agricultural Engineering
- Business Administration and Management
- Environmental Engineering
- Mechanical Engineering
- Engineering Management
- Wildlife Management Engineering

» Gyöngyös «

Tourism and Catering

» Kaposvár «

- Commerce and Marketing
- International Studies
- Media Design
- Photography
- Film and Media Studies
- Craftmanship



Master programmes (4 semesters)

» Budapest «

- Agricultural Biotechnology (plant)
- Food Science and Technology Engineering
- Food Safety and Quality Engineering
- Horticultural Engineering
- Landscape Architecture and Garden Design
- Plant Protection

» Gödöllő 🕊

- Agricultural Biotechnology (animal and plant)
- Agricultural Water Management Engineering
- Crop Production Engineering
- Environmental Engineering
- Management and Leadership
- Finance
- Mechanical Engineering
- Engineering Management
- Rural Development and Agribusiness
- Supply Chain Management
- Wildlife Management Engineering
- » Gyöngyös «
- Business Development
- Tourism Management
- » Kaposvár «
- Animal Nutrition and Feed Safety
- Regional and Environmental Economics
- Photography
- » Keszthely «
- Plant Protection

Doctoral schools

- Doctoral School of Food Sciences
- Doctoral School of Horticultural Sciences
- Doctoral School of Landscape Architecture and Landscape Ecology

» Gödöllő «

- Doctoral School of Animal Biotechnology and Animal Science
- Doctoral School of Biological Sciences
- Doctoral School of Environmental Sciences
- Doctoral School of Crop Sciences
- Doctoral School of Economic and Regional Sciences
- Doctoral School of Mechanical Engineering

» Kaposvár «

- Doctoral School in Animal Science
- Doctoral School of Economic and Regional Sciences

» Keszthely «

- Festetics Doctoral School
 - Environmental sciences
 - Plant breeding and botany
 - Animal husbandry

PhD studies (~4 years)

The doctoral degree awarded by Hungarian University of Agriculture and Life Sciences (MATE) is an internationally recognized and nationally accredited PhD degree. Our professional staff have a good reputation all over the world. The PhD students from MATE easily find jobs in government offices, research institutions, multilateral companies and academic institutions in any part of the world.

Our PhD programmes take 4 years in total. The first 2 years are completed by passing an advanced level exam at the end of the 4th semester, while the last 2 years are for scholarly research, publications and student dissertation. Our PhD programmes take place on four campuses in nine scientific areas.

Ratio of international students in PhD programmes amounts to 36% from more than 60 countries. Governmental scholarships are available for international students (Stipendium Hungaricum, Scholarship Programme for Christian Young People and Bilateral State Scholarships).





Scholarships

MATE welcomes a wide range of exchange students from our partner institutions within Erasmus+, Erasmus+ International Credit Mobility, EEA, CEEPUS programmes and under the scope of bilateral agreements from countries outside the European Union. MATE offers student mobility opportunities abroad for students who meet the requirements of good results and communication skills.

Further information:





Erasmus+

For over 30 years, the European Union has funded the Erasmus programme which has enabled over 4 million European students to spend part of their studies in another higher education institution (HEI) not only in European Union member countries but also in Iceland, Norway, Liechtenstein, Republic of North Macedonia, Turkey and Serbia.

The general objective of the Programme is to support the educational, professional and personal development of people in education through lifelong learning in Europe and beyond, thereby contributing to sustainable growth, quality jobs and social cohesion, to driving innovation, and to strengthening European identity and active citizenship. MATE, with its predecessor institution, joined the programme from the beginning, when it was possible for Hungary and coordinated more thousands successful mobilities on the basis of more than 400 inter-institutional agreements.

Erasmus+International Credit Mobility

In 2015, Erasmus+ opened up these opportunities to individuals and organisations from other parts of the world. Through "International Credit Mobility" - ICM for short - European HEIs can set up mobility agreements with partners around the world to send and receive students and staff. MATE has started to participate in the ICM projects since 2015 and has been awarded the highest budget in Hungary to organize student and staff mobilities to partner universities in more than 20 countries outside EU.

Erasmus+ mobility projects aim to help participants acquire key skills, support their professional development and deepen their understanding of other cultures. Two-thirds of employers think that international experience is a key asset for job candidates and leads to greater professional responsibility. Staff can acquire new competences for their professional development, improve their language skills and learn about new working methods. Also, they target to increase the capacities, attractiveness and international dimension of the organisations taking part. International ties between institutions will be strengthened, giving the partners the opportunity to increase their visibility at local and global levels.



CEEPUS

CEEPUS is an acronym for "Central European Exchange Program for University Studies".

Current member countries are Albania, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, the Czech Republic, Hungary, North Macedonia, Moldova, Montenegro, Poland, Romania, Serbia, the Slovak Republic and Slovenia. Prishtina/Kosovo is also participating.

Each country pays its INCOMING students and teachers and has to pledge at least 100 scholarship months per academic year. The *CEEPUS Agreement* also specifies that these grants be comprehensive grants linked to the local cost of living.

The main activity of CEEPUS are university networks operating joint programs ideally leading to Joint Degrees, esp. Joint Doctoral Programs. CEEPUS covers mobility grants for students and teachers in this framework.

MATE is proud to be among the highest number of network holding universities in Hungary.

FAO Scholarship

The following Master of Science degree courses are being offered in English:

- Agricultural water management
 engineering
- Plant protection
- Crop production



Conditions

Courses will be offered provided the minimum number of students is reached. The scholarship covers student costs only; family members are not supported within the frame of this programme.

The scholarship covers:

- $\ensuremath{\mathfrak{W}}$ application and tuition fees
- basic books and notes throughout the study period
- » accommodation in dormitory
- » subsistence costs
- >>> health insurance

List of eligible countries

Residents (who must be nationals) of the following countries are eligible to apply for the Scholarship Programme: Afghanistan, Albania, Algeria, Angola, Azerbaijan, Armenia, Bangladesh, Belarus, Bosnia and Herzegovina, Burkina Faso, Cambodia, Chad, Egypt, Ethiopia, Gambia, Georgia, Ghana, Jordan, Kazakhstan, Kenya, Kosovo (References to Kosovo shall be understood to be in the context of Security Council Resolution 1244 (1999)), Kyrgyzstan, Laos, Lebanon, North Macedonia, Madagascar, Mali, Myanmar, Republic of Moldova, Mongolia, Montenegro, Namibia, Nigeria, North Korea, State of Palestine, the Philippines, Republic of Cabo Verde, Serbia, Somalia, South Sudan, Sudan, Tajikistan, Turkmenistan, Uganda, Ukraine, Uzbekistan, Vietnam, Yemen.

Scholarships

Stipendium Hungaricum Scholarship

The Stipendium Hungaricum Scholarship Programme was launched in 2013 for foreign students. The aim of the programme is to promote cultural understanding, economic and political relations between Hungary and other countries. Currently over 90 sending partners are engaged in the programme which is managed by *Tempus Public Foundation (TPF)*.

Provisions covered by the scholarship

- Tuition-free education: exemption from the payment of tuition fee
- Monthly stipend:
 - non-degree, bachelor, master and one-tier master level: monthly HUF 43 700 (cca EUR 115) contribution to the living expenses, for 12 months a year, until the completion of studies
 - *doctoral level:* according to the current Hungarian legislation, for newcomers, it is monthly HUF 140 000 (cca EUR 370) for the first phase of education (first 4 semesters) and HUF 180 000 (cca EUR 475) for the second phase (second 4 semesters) for 12 months a year, until completion of studies
- Accommodation: student hostel room/bed depending on the capacity of the higher education institution or HUF 40,000/month accommodation allowance for 12 months a year during the whole period of full-time programmes or for the duration of the partial studies
- Medical insurance: health care services according to the relevant Hungarian legislation and supplementary medical insurance.



en.uni-mate.hu/scholarships



Scholarship for Christian Young People

The core mission of the Scholarship Programme for Christian Young People is to provide the possibility of studying in Hungary for young Christian students living in the crisis regions of the world and/or being threatened in their country because of their faith. After completing their studies, the scholarship holders will return to help their home community with their gained knowledge, and



they will participate in the reconstruction of wardestroyed countries and contribute to improvement of social situation and preservation of culture of Christian communities.

MATE

Provisions covered by the scholarship

- Tuition-free education: exemption from the payment of tuition fee
- Monthly stipend:

• *bachelor, master and one-tier master level:* monthly amount of HUF 166 600 contribution to the living expenses in Hungary, for 12 months a year, until the completion of studies

• doctoral level:

according to the current Hungarian legislation, for newcomers, it is monthly HUF 140 000 for the first phase of education (first 4 semesters) and HUF 180 000 for the second phase (second 4 semesters) for 12 months a year, until completion of studies

- Accommodation: dormitory place or a contribution of HUF 40 000 to accommodation costs for the whole duration of the scholarship period
- » Reimbursement of travel costs: HUF 200 000 /year
- Medical insurance: health care services according to the relevant Hungarian legislation and supplementary medical insurance for up to HUF 65 000 a year/person.

en.uni-mate.hu//scholarships

How to apply?

We are pleased that you are interested in studying at MATE. Applicants to MATE must complete the following steps on our website :

en.uni-mate.hu/application-form

$\ref{eq:complete}$ complete the application form and upload

- a letter of motivation
- recommendation letters from two references (optional)
- » applicable academic documents:
 - BSc applicants must enclose an official copy of their secondary school final examination
 - MSc applicants must enclose an official copy of their BSc degree certificate and transcripts
- » a proof of a B2 level English competence
- » a brief Curriculum Vitae.

We understand that university enrolment is a major event in the lives of prospective students and we are here to make the process as easy and stress-free as possible. You can direct your questions to:

admission@uni-mate.hu

Tuition fees and other costs

Registration fee:

- 100 EUR/student (BSc, MSc programmes)
- 100 EUR/student (PhD programmes)

Tuition fees:

- 1500-3000 EUR/semester (BSc, MSc programmes)
- 4000-6000 EUR/semester (PhD programmes)

Accommodation:

- approximately 150 EUR/month (double occupancy)
- approximately 190 EUR/month (single occupancy)



Facilities

Dormitories



All of the campuses of MATE have dormitories with varied and limited capacities.

Application for accommodation can be done after gaining admission. Available facilities in our dormitories include: (as well as in most houses in Hungary) potable water (drinkable without boiling), electricity, a central heating system, and access to the Internet.

The cost of a shared or private apartment ranges from 150 to 270 euros per month, respectively.

en.uni-mate.hu/accommodation

MATE

Renting

In Gödöllő, finding accommodation nearby is quite rare, so students usually rent accommodation in Budapest. However, this should not be a problem if your choice of courses are only offered in Gödöllő. In about 30 mins, one can arrive at Szent István Campus in Gödöllő by train from the Eastern Railway Station (Budapest, Keleti Pályaudvar).



