



Semmelweis University

More than 250 years in the
service of health



Preface

a message from the Rector

Dear Reader,

With over 250 years of tradition, Semmelweis University is one of the leading medical and health sciences universities in Hungary and the region, which is considered a flagship in the field of education, research and innovation, and medical care as well. It is a real knowledge centre, a historic trademark and brand that commits all who work or study here to the highest quality of education, scientific performance and healing work.

Today, the Semmelweis University community has many things to be proud of.

Our institution is among the top 250 universities in the world and among the best in Europe, and is one of the best institutions of higher education in Central Europe where internationally recognized medical and health sciences education is conducted. Over the past decades, we have become one of Europe's leading English and German language training institutions with more than 14,000 students, a third of whom are foreigners from 5 countries. The university has over 300 research groups, and more than 4,500 physicians and health professionals helping our education, patient care and research activities. As one of the biggest healthcare institutions in Hungary, our departments provide the highest quality care in more than 2 million medical cases annually. We are proud of these numbers and accomplishments, but know that there are always opportunities ahead of us to grow evolve, and to become better.

As we look into the horizon, our primary goal for the future is trustworthy to Semmelweis's spirit: to build a university that trains the best physicians and healthcare professionals

and to position our institution among the best 100 universities of the world, and among the top five universities in its field in Europe. I strongly believe we possess the foundation and the tools to accomplish this. This is the aim of our curricular reform, which focuses on practice-oriented training and allows students to spend more time in the lab, in the ward and at the bedside, so that they graduate with a broader range of practical skills. We have an international network that spans five continents, with partners in the United States, Canada, Japan, South Korea, China and many European universities. We have signed cooperation agreements with Harvard University and the Karolinska Institute, among others. We are doing our best to strengthen our links with the private sector, so that our institutional RDI results can be utilized in business: our partners include a number of industrial and commercial companies that are national and international leaders in the field of medicine and health sciences.

This booklet serves as a window into the legacy that Semmelweis University citizens are proud to be a part of. As you leaf through these pages, I sincerely hope that you will be filled with the same uplifting feeling. Our three-pillar mission of excellence in education, research and innovation, and patient care holds importance not only to our university citizens, but to everyone who hopes for a healthier tomorrow.

I hope you find this booklet informative, and enjoy learning more about our university.

Dr. Béla Merkely
Rector of Semmelweis University

EXCELLENCE

IN MEDICAL EDUCATION, RESEARCH & INNOVATION AND HEALTHCARE

About the university briefly

Semmelweis University, based in Budapest, Hungary, has been a leading biomedical institution of higher education in Hungary and Central Europe for the last 250 years.

Education, research & innovation, and healthcare comprise the university's three-pillar mission. With its six faculties and doctoral school, the university covers all aspects of medical and health sciences education. A truly international community, the university boasts programs in Hungarian, English, and German, and the diplomas issued are officially recognized in the European Union and by many other countries around the world. The number of our students is well over 14,000 and is constantly growing. A third of our students come from 5 continents of the world with the aim of continuing their studies with us at

the university's six faculties. The university has international campus programs located in Germany, Switzerland, Slovakia and Romania.

Research, development, and innovation comprise an important role in the university's activities. Traditional areas of research such as cardiology, oncology, neurosciences, molecular and translational medicine, and pharmaceutical research are complemented by innovative disciplines like Artificial Intelligence, bioimaging, translational biotechnology, big data and regenerative medicine. Semmelweis University is the largest provider of healthcare services in Hungary. The university's hospitals and clinics provide the highest quality patient care services, as well as practical teaching.



AMONG THE TOP **UNIVERSITIES** OF THE **WORLD**

Semmelweis University ranks among the TOP 250 universities of the world*

TOP 50 universities in the field of Cardiology and Cardiovascular System (US News Best Global Universities Rankings, 2023)

TOP 140 universities in the world in the field of Anatomy and Life Sciences (QS Rankings, 2022)

TOP 200 universities in the field of Life Sciences (THE Rankings, 2023)

TOP 250 universities in Pharmacy & Pharmacology and Medicine (QS Rankings, 2022)

TOP 250 universities in the world in the category of Clinical & Health (THE Rankings, 2023)

TOP 300 universities in the world in the fields of life sciences and medicine (QS Rankings, 2022)

TOP 300 universities in the world in the fields of dentistry, clinical medicine and pharmacy & pharmaceutical sciences (Shanghai Rankings, 2023)

TOP 400 universities in the world in the field of medical technology (Shanghai Rankings, 2023)

*Times Higher Education World University Rankings, 2023

9:1 students to faculty ratio

training in **3** languages

more than **14 000** students

6 faculties and 1 school of PhD studies

more than **1500** scientific publications/year

110+ countries

more than **40** departments and clinics

250+ research grants

4500+ international students

300+ research groups

more than **2.7** million medical cases/year

more than **10 000** employees



THE OLDEST MEDICAL SCHOOL IN HUNGARY

Milestones of Semmelweis University's rich history

1769

The Faculty of Medicine was added to the University of Nagyszombat by Hungarian Queen Maria Theresa

1784

The university moved to Pest

1951

The Faculty of Medicine was reorganized into an independent medical school, and its name was changed to Budapest University of Medicine

1969

The university was named Semmelweis University of Medicine, in honour of Ignác Semmelweis on the Faculty's bicentennial

1983

German language training was launched

2000

Semmelweis University of Medicine merged with the Imre Haynal University of Health Sciences and the University of Physical Education, and it was renamed Semmelweis University

2017

The Pető Institute merged with the university and became an independent Faculty: the András Pető Faculty

2023

The 40th anniversary of launching international medical trainings

1770

The Faculty of Medicine opened with five departments

1855

Ignác Semmelweis became appointed Professor of Theoretical and Practical Obstetrics at the University of Pest

1955

The Faculty of Dentistry and the Faculty of Pharmacy were established

1975

The Faculty of Health Sciences was founded

1989

English language training was launched

2010

The Faculty of Health and Public Services was established

2019

The 250th anniversary of the establishment of Semmelweis University

IN THE **FOOTSTEPS**

OF **IGNÁC** **SEMMELWEIS**



The Hungarian physician Ignác Semmelweis was an early pioneer of antiseptic procedures. He discovered that the incidence of puerperal (also known as childbed) fever could be drastically reduced by the use of hand disinfection in obstetrical clinics. Semmelweis proposed the practice of washing hands with chlorinated lime solution in 1847. Despite the fact that hand washing reduced the mortality rate to below one percent, Semmelweis's observations conflicted with the established scientific and medical opinions of the time and his ideas were rejected by the medical community. Semmelweis's practice earned widespread acceptance only years after his death, when Louis Pasteur confirmed the germ theory. In 2013, the UNESCO

recorded him in the list of "the world's most memorable" persons. In 2018, on the occasion of Ignác Semmelweis's 200th birth anniversary, in the framework of the Semmelweis Memorial Year, about 20 Semmelweis statues were erected around the world, including Tokyo, Geneva, Krakow and Vienna. In 2023, on the occasion of the 204th anniversary of his birth, the statue of Semmelweis was unveiled in London, at Queen Mary University and at the National University of Singapore. Semmelweis's portrait is among the most innovative medical health professionals of the world, together with statues of Louis Pasteur and Wilhelm Konrad Röntgen in the Hall of Fame of the International Museum of Surgical Science in Chicago, USA.

The name Semmelweis is a historic trademark that obliges the university to provide the highest quality education, scientific performance and patient care. Semmelweis University is moving forward on its way with an innovative approach and strong determination trustworthily to Semmelweis's name and spirit.

EXCELLENCE IN EDUCATION

Education stands at the centre of Semmelweis University's three-pillar mission

The university emphasizes a translational approach to education by building a strong foundation of both theoretical and practical knowledge. The most important objective is to prepare graduates to provide the best medical, dental, pharmaceutical, and conductive service, as well as the highest quality healthcare to patients. Today, students from around the globe have the opportunity to acquire hands-on education and training from distinguished professors in an environment equipped with state-of-the-art technology. The university offers programs in three languages (English, German and Hungarian) at the undergraduate, graduate and postgraduate level. In addition to the Hungarian language program, students have been able to pursue their studies in German since 1983, and in English since 1989.

HUNGARY'S LARGEST MEDICAL TRAINING INSTITUTION
In Hungary, the highest number of medical doctors, dentists and pharmacists have graduated from Semmelweis University.

A TRULY INTERNATIONAL AND MULTICULTURAL COMMUNITY
Semmelweis University is among the world's most international universities: nearly one-third of its students come from over 110 countries around the world.

MOST EDUCATORS WITH PHD QUALIFICATION IN THE FIELD
In the professional fields of medicine and medical biology, Semmelweis University has the most educators with PhD qualification in Hungary.

STRONG COMMITMENT TO PRACTICE-ORIENTED MEDICAL EDUCATION
The renewed six-year curriculum of medical training consists of two years of theory, one pre-clinical year, and a three-year period spent in clinical practice.

The university's new curriculum introduced in 2019 is adapting constantly to changing circumstances, and challenges of our time. The curriculum reform serves an even better balance of clinical practice and theoretical education with the aim of training qualified health professionals with strong practical skills and real clinical experience, built upon a strong theoretical foundation.

A WORLDWIDE *RECOGNIZED* DIPLOMA

Semmelweis University and its predecessor institutions have issued more than 100,000 diplomas so far. The degrees are accepted in numerous countries around the world. Many of the university's departments and trainings are already accredited in several other countries, and the leadership of the university is committed to further accreditation abroad as well as increasing the number of hospitals and institutions accredited by Semmelweis University. Semmelweis University is operating under the control of a public-interest trust foundation. The maintainer of the university is the Foundation for National Health Care and Medical Education (NEOA). The university is listed in the World Health Organization's (WHO) World Directory of Medical Schools. The decision of the National Committee on Foreign Medical Education and Accreditation of the USA declares: the standards and processes used by the Hungarian Accreditation Council to accredit medical schools in Hungary are comparable to those used to accredit medical schools in the USA.

EUROPEAN UNION

In case of professions where educational conditions are identical with those in the European Union, certificates issued in Hungary are accepted by all member states.

USA

Semmelweis graduates have the right to pass the United States Medical Licensing Examinations (USMLE), after which they are eligible for residency. The university organizes USMLE training programs for its students.

CANADA

Semmelweis graduates are eligible to pass the Medical Council of Canada Evaluation Examination (MCCEE) and the Medical Council of Canada Qualifying Examination (MCCQE) before applying for residencies.

ISRAEL

Semmelweis graduates have to complete a one-year practice and pass a test before they are eligible for obtaining the permit to practice medicine.

INDIA

Semmelweis University's Doctor of Dentistry degree is equivalent to the B.D.S. degree in India.

Upon finishing their studies, students receive not only a worldwide recognized diploma, but access to great career opportunities; nearly two-thirds of university students find high-level employment within one month of completing their studies. Graduated students have the support of an extensive international alumni network.





EDUCATION PROGRAMS OF **DIFFERENT** LEVELS IN THREE **LANGUAGES**

6 Faculties

Faculty of Medicine
Faculty of Dentistry
Faculty of Pharmacy
Faculty of Health Sciences
Faculty of Health and Public Administration
András Pető Faculty

Semmelweis University School of PhD Studies
11 departments
More than 900 active PhD students

Degree programs

Bachelor's programs
Single long cycle programs (Dentistry, Medicine, Pharmacy)
Master's programs
PhD programs

Non-degree programs

High-level vocational training
Postgraduate specialist training
Tailor-made short courses and study tours

QUALITY THEORETICAL AND PRACTICAL TRAINING, HIGH SCIENTIFIC RESEARCH OUTPUT

"Our fundamental goal is to train physicians who have a high degree of theoretical and practical knowledge, are able to think and make decisions on their own and are motivated to carry on learning for a lifetime."

Dr. Miklós Kellermayer, Dean

Founded in 1769, the Faculty of Medicine is Semmelweis University's oldest and largest faculty with over 4,700 students, more than 50 percent of which are international. The six-year long medical education program is based on a strong theoretical foundation with a huge emphasis on clinical training supporting the development of practical skills. It will be even more enhanced by the introduction of the new medical curriculum 2019/2020, which is adapting constantly to changing circumstances and challenges of our time. In addition to its educational activities, the faculty is committed to providing the highest level of progressive healthcare and conducting advanced scientific research within both its classrooms and clinical departments. The faculty encourages students to get involved in research activities during their university years already and later via PhD studies.

Foreign language instruction at the Faculty of Medicine is available in English and German. The degree is identical to what is granted in the Hungarian program: Medical Doctor (MD).



ONE OF THE MOST **STATE-OF-THE-ART** **DENTAL INSTITUTES** IN **EUROPE**

"On the journey to a diploma, not only knowledge is measured, but students can gain experience in how to interact with patients, which is inevitable for a medical doctor."

Dr. Gábor Gerber, Dean

Faculty of Dentistry

The Faculty of Dentistry was formally established in 1955. Today, the total number of dental students studying at the faculty is more than 800 and the ratio of international students is more than 20 percent. The university degree attained here has a high market value: in the field of Dentistry and Oral Sciences, the university has been ranked among the top 200 according to the Shanghai Rankings. In addition to that, the faculty is ranked 58th in citations relative to the departmental average, neck and neck with Yale University. The dentistry program is five years long. The faculty has an estimated 100 full-time and part-time professors and tutors. The major theoretical and general medical subjects are taught by the Faculty of Medicine. The faculty's healthcare activities primarily serve the practical training of dental students. The Faculty of Dentistry has an accredited PhD program called Research in the Dental Sciences.

Foreign language instruction at the Faculty of Dentistry is available in English and German. The degree is identical to what is granted in the Hungarian program: Doctor of Dental Medicine (DMD).



AMONG THE **TOP 200** **UNIVERSITIES** IN THE **WORLD** IN PHARMACY EDUCATION



“Being a pharmacist is not only a profession but a devotion to safe and effective treatment for optimal outcomes of the patient. Pharmacy graduates should never forget their duty to continuously educate themselves in order to provide the best possible service in prevention and patient recovery.”

Dr. István Antal, Dean

Faculty of Pharmaceutical Sciences

The Faculty of Pharmaceutical Sciences is the country's oldest independent faculty in the field, established in 1955. In 2011, Semmelweis University was the first to launch, and remains the only university in Hungary, to offer a German language training program in pharmacy. It is the only pharmaceutical faculty in the world to offer education in the following languages: Hungarian, English, and German. From the total of more than 900 students enrolled annually, almost 25 percent are international. The undergraduate program consists of five years of continuous studies, the completion of which results in a master's degree. The curriculum reform, introduced on the occasion of Semmelweis University's 250th anniversary, focuses on practice-oriented education and knowledge. In the framework of postgraduate education, pharmacists have the opportunity to specialize in several different professional fields. PhD programs are a popular choice for postgraduate education in various fields of community, clinical and industrial pharmacy chemistry, biology and medicine.

The research portfolio covers drug discovery, development and evaluation, thus the scientific spectrum ranges from molecules to patient-centric drug therapy, including the development and processing of medicinal products with desired quality, safety, and efficacy. The faculty has considerable experience investigating natural and synthetic substances, their interaction with biomolecules, and also in the development of innovative dosage forms.

Foreign language instruction at the Faculty of Pharmacy is available in English and German. Since 2009, the dr. pharm. qualification, an inherent doctoral degree of occupation, has also been granted to pharmacists graduating in Hungary. Furthermore, the Master of Pharmacy and dr. pharm. diplomas of Semmelweis University are accepted throughout the European Union and in most other countries in the world.

Foreign language instruction at the Faculty of Health Sciences is available in English at different levels (BSc, MSc, PhD). Graduates have excellent career opportunities even outside the borders of Hungary.

ACADEMIC PROGRAMS AVAILABLE IN FOREIGN LANGUAGES IN THE FIELD OF HEALTH SCIENCES

BSC PROGRAMS:

Nursing
Midwifery
Dietetics
Optometry
Health Tourism Management
Physiotherapy
Public Health Supervisor

MSC PROGRAMS:

Nursing Science (Advanced Practice Nurse)
Physiotherapy

PHD PROGRAM THEMES:

Clinical and Comparative Health Sciences
Theoretical and Preclinical Health Sciences
Society and Health
Public Health Sciences



CENTRAL **EUROPE'S** *BROADEST SPECTRUM* OF *HEALTH* SCIENCES TRAINING

Faculty of Health Sciences

The Faculty of Health Sciences of Semmelweis University was founded in 1975 as the College of Health Care and was integrated into Semmelweis University in 2000. At present, it has 16 departments with highly qualified lecturers and part-time instructors, and more than 4,000 students, more than 17 percent of whom are international. The faculty provides high-level education in the field of health sciences and awards internationally recognized diplomas on BSc, MSc and PhD levels. Foreign language (English) instruction at the Faculty of Health Sciences

commenced in the 2004/2005 academic year. In 2004, all units of the faculty moved to a single location, the beautifully renovated building at 17 Vas utca. A new, modern wing was added to the historic building, where education could begin in the 2022/2023 academic year. Most of the programs are available in Budapest, Hungary, and since 2008, Physiotherapy can be studied also in Lugano, Switzerland in Italian and in French in the framework of the off-campus program of the faculty.

“Motivation, innovation: these are the two key accelerating factors of the faculty. The Faculty of Health Sciences operates with outstanding human capital and invaluable know-how, serving not only the development of the field of health sciences, but the overall health of the population.”

Dr. Gabriella Dörnyei, Dean

THE WORLD'S ONLY **ACCREDITED** CONDUCTOR **TRAINING** INSTITUTION

András Pető Faculty

András Pető (1893–1967) was a Hungarian physician whose internationally recognized professional work provided the foundation for conductive education. Based on his successful observations, extensive data collection and subsequent researches, the rehabilitation work built on the conductive educational system began to operate in an institutionalized form, becoming a worldwide recognized cradle of the “Pető-method”. The András Pető Institution merged with Semmelweis University in 2017 as its sixth faculty, bringing in 7 decades of rehabilitation work and 50 years of conductor training experience. Nearly 1,000 children and adults, from both Hungary and abroad, suffering mainly from motor impairments participate each year in permanent or interval conductive education, in a daycare or residential system, at the practice locations managed by the faculty. With more than 300 students, 12 percent of them international, the faculty offers practice-oriented conductor training by using a balanced blend of tradition and innovation, and provides learning programs in Hungary and internationally.

Long and short duration training courses on conductive education, as well as site visits are offered in several foreign languages (English, Spanish, Russian). The Undergraduate (BA) Conductor Training Program is available in Hungarian and English.

“Our faculty’s mission is to provide our students with an in-depth, highly practice-oriented knowledge through our unique BA program in conductive education which is at the intersection of educational and health science. Our practice locations provide care for those in need of development, and serve as a comprehensive practice area for our students.”

Dr. Miklósné Tenk Dr. Andrea Zsebe, Dean





The first Health Services Management Training Program

HSMTC was the first to introduce a health services management training program in Hungary more than 25 years ago, which is still the leading health management training program in Hungary.

Extensive International Research & Development activity

- Healthcare Quality Management and Patient Safety
- Big Data and Network Analysis
- Human Resources for Health Development
- Mobility of Health Workforce

International projects

The faculty plays an important role in regional and worldwide projects in the fields of health management and health policy as a project leader and cooperation partner.

WHO Collaboration Centre

HSMTC has been appointed as a WHO Collaboration Centre on Human Resources for Health Development in 2015, in recognition of its outstanding results in the field of human resources research.

Foreign language instruction at the Faculty of Health and Public Administration Health Services Management Training MSc Program is available in Hungarian in Budapest, and in Slovakian in Bratislava. HSMTC offers tailor-made short courses and study tours in various fields of health management, health policy and management of change and innovation in English. The Institute of Digital Health Sciences provides digital health courses for the Faculty of General Medicine, Dentistry and Pharmacy in English and German.

DEFINING **REGIONAL** **ROLE** IN HEALTH SERVICES MANAGEMENT EDUCATION AND **PRACTICE**

Faculty of Health and Public Administration

The Faculty of Health and Public Administration was founded in 2010 by the Health Services Management Training Centre (HSMTTC), the Institute of Digital Health Sciences, and the Institute of Mental Health. The faculty occupies a unique place in the educational, research and consultancy activities of Semmelweis University, straddling the borders of the medical, health, natural and social sciences. Its institutes offer a wide range of programs on BSc, MSc and PhD levels, in the fields of health policy,

health management, individual and community mental health, social policy and management, management of change and innovation, and digital health. The faculty is recognized as a leading institution in Europe, involved in a number of research and professional development programs. The faculty serves as a first choice for foreign partners who focus on the development of healthcare systems, health policy issues, healthcare data mining or the digital transformation of healthcare.

"We invite those applicants to our programs who are ready to improve their knowledge and skills to work for better health, better healthcare and social care organizations, and better healthcare systems."

Dr. Miklós Szócska, Dean

AMONG THE *FIRST* IN **EUROPE** TO INTRODUCE **INTERNATIONAL** CAMPUS TRAINING

Hamburg

Thanks to its pioneering efforts, Semmelweis University was among the first European higher educational institutions to introduce off-campus training. These programs allow primarily international students to follow the Semmelweis curriculum while undertaking their studies at a partner institution abroad.

The cooperation between Semmelweis University and the Asklepios Kliniken GmbH created an education model that provides Semmelweis students with the opportunity to continue their studies in Hamburg after successfully completing two years of theoretical training in Budapest. The program at the Asklepios Campus Hamburg of Semmelweis University follows the Semmelweis curriculum in its entirety and grants students a Semmelweis diploma upon the successful completion of their studies. The off-campus training operates under the auspices of the University's Faculty of Medicine.

Start of cooperation: 2008
Language of the program: German
Teaching staff: Hungarian, German
Diploma: MD
Length of the program: 12 semesters

Lugano

Semmelweis University's cooperation with the Lugano Libera Università degli Studi (L.U.de.S.) was created following the initiative of the Faculty of Health Sciences. The L.U.de.S. Physiotherapy BSc program is the same as the one offered at the Faculty of Health Sciences. Accordingly, the program lasts four years and is comprised of both theoretical and practice oriented courses.

Start of cooperation: 2009
Language of the program: English, Italian
Teaching staff: Swiss
Diploma: BSc
Length of the program: 8 semesters

Bratislava

The Bratislava-based Health Manager MSc program was established thanks to the collaboration between Semmelweis University's Faculty of Health and Public Services and the Slovakian Health Management Academy. The program, which is taught in Slovakian, was launched in 2010 and the first group of students obtained their MSc diploma in 2013.

Start of cooperation: 2010
Language of the program: Slovakian
Teaching staff: Slovakian
Diploma: MSc
Length of the program: 4 semesters

Budapest, Harbin

Heilongjiang University of Chinese Medicine launched a Traditional Chinese Medicine training program at the Faculty of Health Sciences, which is unique in Hungary and in the world. Students spend their first four years studying in Hungary, and the fifth, final year in Harbin, China. Students graduating from the program are awarded a BSc degree from Heilongjiang University, which entitles them to work in a rapidly expanding field of healthcare.

Start of cooperation: 2010
Language of the program: Hungarian, Chinese
Teaching staff: Hungarian, Chinese
Diploma: BSc
Length of the program: 10 semesters

Illyefalva

Over the years, the awareness of conductive pedagogy in the Carpathian Basin has steadily increased thanks to various government programs. On this basis, the András Pető Faculty launched its off-campus program in Illyefalva, Romania. As this program is unique to the world, many international students are attracted to it, so the number of our international students is growing rapidly.

Start of education: 2017
Language of the program: Hungarian
Teaching staff: Hungarian
Diploma: BSc
Length of the program: 8 semesters



EXCELLENCE IN RESEARCH & *INNOVATION*

Semmelweis University is the leading centre of excellence in science and innovation in the fields of clinical & health and life sciences in the Central-Eastern European region. The success is based on the scientific output with extensive international cooperations and the multinational pool of students. Within the areas of clinical & health and life sciences, the diversity and broad spectrum of the university's Research, Development and Innovation (RDI) activities is illustrated by its more than 300 research groups with a high volume of national and international research grants and intensive scientific publication activity. Scientific results quickly make their way into clinical practice as well as into the university's educational activities. Numerous international patents are attracting investors and co-development partners for future commercialization. Successful start-ups have been launched as a result of the innovative discoveries of university-based research groups. Clinical trials are carried out in various fields, and by clinics covering all the therapeutic areas, aiming the development of new drugs and medical devices. Semmelweis University is the top-ranked university in the Central Eastern European region, as it is listed in the top 250 in the Times Higher Education World University Rankings. The university has a steadily increasing quality publication output: more than 1,500 international papers are published annually, including several highly cited papers.

The concept for a **Science Park** was launched recently and went through a development process leading to a focused professional content including grounds for a complex Research, Development and Innovation support system. This support system will motivate PhD students and young researchers for innovation activities, and provide collaborative platforms with pharmaceutical, biotechnology and medical technology industry players. The Science Park aims to increase scientific and innovation performance as well as the exploitation of the university's knowledge on the global market. It is going to be a tool to attract innovative, entrepreneurial, highly skilled professionals to Semmelweis University. The Science Park is going to host development of artificial intelligence applications and significant advancements in translational medicine, biotechnology, and bioinformatics. Semmelweis University's vision is to become the main centre of the Central Eastern European region's health industrial ecosystem.





Semmelweis University pays dedicated attention to the recognition and engagement of talented students, their support and scientific education.

EDUCATION OF **FUTURE** **RESEARCHERS**

AT THE SERVICE

OF **SCIENTIFIC** **PROGRESS**

“The excellence of the PhD program is based on mutual motivation. We work with the most committed and talented students, and their enthusiasm and energy is such a motivation for us too that makes it possible for good things to come out of our cooperation.”

Dr. Zoltán Benyó, President of the Doctorate Council

As an internationally renowned higher education research institution, the Semmelweis University School of PhD Studies is attended by nearly 1,000 students every year, around ten percent of whom are international. Its doctoral schools offer over 40 programs in Hungarian and English, attracting students from all over the world.

PHD SCIENTIFIC DAYS

The School of PhD Studies organizes PhD Scientific Days every year, where Hungarian and international students of the university can test their presentation and discussion skills and present their scientific research results during the conference.

STUDENT RESEARCH (TDK)

The Students' Scientific Association is a platform for self-instruction and scholar training: talented students are aided by outstanding teachers and researchers to get an insight into scientific life during their studies. Almost 1,600 students are involved in ongoing research activities through the Students' Scientific Association. Nearly all of the university's departments and clinics take part in the talent support program. The primary goal is to provide an opportunity for every student to get involved in research, gain experience at Hungarian and international conferences, and build personal and professional relationships that prepare them for their scientific career.

KERPEL-FRONIUS PROGRAM

The Kerpel-Fronius Talent Support Program was set up by the Senate of the university to find and support exceptionally talented Hungarian and international students. The program is run by the Talent Support Council with the help of the faculties' representatives. Outstanding teachers and researchers volunteer to become mentors and are responsible for one exceptionally talented student's academic advancement, support and application for scholarship. Enrolment in the program is based on the student's academic results and a personal interview, and successful applicants are offered individual mentoring and scholarship opportunities by the program. A new „Junior Academy” was recently established by the program for complex information of students.

300+ RESEARCH GROUPS WITH INTERNATIONAL NETWORKS

Major R&D projects supported
by national and international grants:
National Competitiveness and Excellence Program
Hungarian Centre of Excellence for Molecular Medicine
National Laboratories Program

The National Competitiveness and Excellence Program (NCEP)

Nineteen winning projects of the university have received a more than fifteen billion HUF funding support from the Hungarian National Research Development and Innovation Fund. Most of the support has been awarded to the National Heart Program, focusing on the diagnosis and therapy of ischemic heart diseases and heart failures. In close second came the Hungarian Oncogene and Personalized Tumour Diagnosis and Therapy National Program, a University-level program of unprecedented worldwide approach: a computer algorithm to identify further genes leading to a tumor, determined to increase the efficiency of the Electromagnetic Cancer Therapy Device. NCEP provides funds to diverse excellence research programs, such as for example translational research in ischemic heart disease, rheumatology, pharmacovigilance, sport medicine, clinical and cognitive neurosciences, interdisciplinarity in healthy ageing, federated genomic database, telemedicine in the management of patient with cardiac arrhythmia, factors leading to pandemic preparedness and pathogenesis of SARS-CoV-2 virus.

The National Laboratories Program

Semmelweis University participates in the National Laboratories Program (NLP) with five winning projects. In the National Cardiovascular Laboratory project – which supports the development of new procedures in healthcare – Semmelweis University is the consortium leader, with partners from academia and industry. Semmelweis University is a consortium member in four further NLP projects, like National Laboratory of Translational Neuroscience, National Laboratory for Health Security, Artificial Intelligence National Laboratory and National Multidisciplinary Laboratory for Climate Change.

Scientific events

There are many important scientific events organized at Semmelweis University. Held annually since 1992, the **Semmelweis Symposium** is one of the most prestigious international scientific events and one of the most important forums for sharing the latest developments in scientific research. The **Semmelweis Science and Business Salon** is the university's elite scientific forum where outstanding national and international researchers meet with industry partners.

Hungarian Centre of Excellence for Molecular Medicine (HCEMM)

The main research and development focus of HCEMM is the development of molecular approaches – diagnostics as well as treatment – for healthy ageing. Three research pillars related to non-infectious ageing-related diseases have been established (Immuno-inflammatory, Metabolic and Cardiovascular Diseases as well as Genomic Instability and Cancer). In addition, a fourth pillar related to infectious diseases (co-morbidities) is being established in 2021. HCEMM Program is being launched together with two other Hungarian partners: Biological Research Centre, University of Szeged under the umbrella cooperation of European Molecular Biology Laboratory – Heidelberg, Germany. Currently nine HCEMM research groups are working at Semmelweis being flagships of research excellence in molecular medicine.

Scientific honors and awards

The **Semmelweis Budapest Award** is the highest recognition of the university, to award those scientists whose scientific achievements are exemplary for future generations and experienced scientists alike. The Award may be given to an accomplished international researcher working in the field of natural sciences with internationally acknowledged results, and whose work contributes significantly to our understanding of living natural sciences, and the benefit of mankind.

Doctor Honoris Causa Semmelweis University's honorary degree is presented to accomplished scientists and professors, who have achieved internationally recognized results and who have maintained strong collaborative ties to the university. The title can be awarded in scientific fields in which the university is entitled to confer a doctorate. The honorary titles are conferred on the occasion of the Dies Academicus during the ceremonial opening session of the University Senate.

Major international RDI networks

European Institute of Innovation and Technology (EIT) Health:
The largest health-research cooperation of Europe, aiming to support the processes from idea to product, from laboratory to market, from PhD student to entrepreneur.

Central Europe Leuven Strategic Alliance (CELSA):
Research, education and public service-based collaboration of seven universities.

EUROLIFE:
Network of nine European universities in the fields of life sciences including collaborative research, joint postgraduate education, exchange of researchers and students.

ALLIANCE4LIFE:
Joint project of twelve leading life science institutions to support the share of good practices within the Horizon 2020 framework program.

International Neoadjuvant Melanoma Consortium (INMC):
Interdisciplinary global health and societal research applied to precision medicine.

European Confederation of Upper-Rhine Universities (EUCOR):
German, French and Swiss University network for intensive joint research projects and student mobility. Top priorities: oncology, neurosurgery, cardiovascular diseases and robotic surgery.

European Cooperation in Science and Technology (COST):
Cardioprotection Action: The university leads an international network of scientists from academia and industry across Europe to enhance development of cardioprotective therapies.

Network Medicine Alliance (NMA):
Represents 33 leading universities and institutions around the world committed to improving global health and advancing the field of Network Medicine led by Harvard Medical School.

EXCELLENCE IN **HEALTHCARE**

Since its foundation, Semmelweis University pays special attention to the continuous development and expansion of its healthcare services, and places great emphasis on clinical practical training.

As a result, the university has grown into one of the largest healthcare institutions in Hungary today, handling around 2.7 million cases each year. It has nearly 40 departments distributed among the four main clinical centres. The university covers the healthcare needs of approximately six percent of the Hungarian population, treating around 2.7 million medical cases annually; around 450,000 outpatients and 100,000 inpatients each year. There are more than 2,000 active and 60 rehabilitation beds, in addition to which the departments provide around 14,000 patients with one-day care per year.

Semmelweis University's patient care is carried out on the highest level and it has several departments catering to patients in critical condition. Cutting-edge technology enables the establishment of the most accurate diagnosis.

Patient care at the university is an integral part of the education of medical and healthcare professionals. The renewed curriculum places an even greater emphasis on clinical training than before, aiming to enable students to gain valuable experience with useful practical skills and competencies during their studies.

One of the largest cardiovascular centres of the EU, home to a one-of-a-kind hybrid operating theatre

The largest neonatal intensive care unit in Hungary

Hungary's largest newborn metabolic screening centre

One of the largest centres of endocrine disorders in Hungary

The largest ophthalmic surgery centre in Hungary and one of the largest in Central Europe

First inpatient department for patients suffering from rare disorders in Hungary

Committed to prevention and health promotion

Semmelweis University aims to play a leading role not only in patient care, but also in disease prevention and health promotion in order to contribute to the health of the population. Semmelweis University students are involved in health promotion and prevention activities from early stages of their education. This is supported by the newly established Health Promotion Centre and the restructured, modern curriculum.



FOSTERING INTERNATIONAL COLLABORATIONS

Semmelweis University considers international relations a top priority. The university takes many actions, in the forms of international mobility programs, international cooperations, tailor-made short courses and various joint international projects, to actively foster the university's existing international relations, and to commit to building new relationships to increase its international visibility and strengthen its leading role in Central and Eastern Europe and beyond. The university is member of several international professional and scientific organizations and has an extended international network spanning across five continents, including around a hundred universities within the Erasmus+ network and other 40 universities in joint cooperation based on bilateral agreements.

Strategic partners worldwide

EUROPE

Belgium

Catholic University Leuven

Czech Republic

Charles University

France

University of Strasbourg
Nantes University

Germany

Asklepios Kliniken
University of Freiburg
University of Heidelberg

University of Lübeck
University of Cologne
University of Konstanz

Italy

University of Florence

Romania

Vasile Goldis Western University
of Arad
Grigore T. Popa University of
Medicine and Pharmacy
University of Medicine, Pharmacy,
Science and Technology of
Targu Mures

Slovakia

University of Trnava

Spain

University of Murcia
University of Santiago
de Compostela

Switzerland

University of Basel

Sweden

Karolinska Institutet
Linnaeus University

Ukraine

Taras Shevchenko National
University of Kyiv

United Kingdom

University of Birmingham

MIDDLE EAST

United Arab Emirates

Gulf Medical University

NORTH AMERICA

USA

George Washington
University, D.C.

Harvard University
Houston Methodist Hospital
Rutgers University
University of California Davis
State University of New York at
Buffalo
University of Massachusetts Medical
School
University of West Georgia

Canada

Schulich School of Medicine and
Dentistry – University of Western
Ontario

ASIA

China

Heilongjiang University of Chinese
Medicine
Beijing University, Health Science Center
Shanghai Jiao Tong University
Shanghai University of Traditional Chinese
Medicine
Tianjin Health Commission
Zhejiang University School of Medicine
Wenzhou Medical University

Japan

International University of Health and
Welfare

Japanese Society of Pathology
Josai International University
Saitama Medical University
Tokyo Medical University

Singapore

National University of Singapore
Duke-NUS Medical School

South Korea

Seoul National University
Chung-Ang University

Thailand

Naresuan University
Chulalongkorn University

Erasmus+

The European Commission's Erasmus+ mobility program provides Semmelweis University's students and teachers with the opportunity to undertake study or training programs both within and outside Europe. Besides the mobility program designed for one semester, there are shorter mobilities which also promote experience and knowledge exchange. The increasing number of international students undertaking part-time education at Semmelweis University in the framework of the Erasmus+ program signifies perfectly that Semmelweis University has grown to be a highly attractive destination for European students and academic staff alike. This can be attributed to the fact that Semmelweis University offers not only an outstanding academic infrastructure and high-quality education, but also a very unique and bustling international student life. More than one-third of the students at Semmelweis University are international, meaning that incoming students become part of an amazing and diverse international community.



INTERNATIONAL EXPERIENCE AS AN **ADDED** VALUE

International mobility programs

Semmelweis University has always considered nurturing talent and promoting the professional development of its students and staff as an essential part of its institutional excellence, utilizing international mobility opportunities to their full extent. The university has an increasing number of outgoing and incoming program participants annually; countless numbers of students and staff members have benefited from the programs over the years in terms of professional development, experience and intercultural skills.

The university's International Mobility Office provides all-around service to both incoming and outgoing students and staff, from coordination between faculties through the management of the application process and the handling of funds.

NEW *PERSPECTIVES* FOR INTERNATIONAL *TALENT* SUPPORT

EURAXESS

EURAXESS – Researchers in Motion is a unique web-based service that provides researchers with the opportunity to work abroad. It also assists companies and institutions that would like to employ international researchers. Semmelweis University's International Exchange Program Office works together with the **EURAXESS Hungary Team** to assist Hungarian and international researchers and their families to work abroad or study at the university. Semmelweis University strives to use the **EURAXESS** web service to its full extent in order to allow Semmelweis staff to broaden their scientific perspectives and experience abroad as well as international researchers to find appropriate work opportunities.

CEEPUS

The **Central European Exchange Program for University Studies (CEEPUS)** is a multilateral international program supporting the cooperation between higher education institutions from member countries through academic networks. CEEPUS offers mobilities for BA/MA students, PhD students and teachers of higher education institutions from member countries. All fields of study are welcome and there are no priority areas. CEEPUS members: Albania, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Hungary, Moldova, Montenegro, North Macedonia, Poland, Romania, Serbia, Slovakia, Slovenia, and universities in Kosovo.

Eurolife

Eurolife Network is committed to developing new pan-European standards of excellence in life science education. The partnership recognizes the need for increased collaboration and mobility of students within Europe. The network offers undergraduate and masters students of the partner institutions the opportunity to carry out the research (or practical) portion of their studies at one of the **Eurolife** institutions.

EUniWell

EUniWell – the European University for Well-Being – is one of 44 European University Alliances, selected for funding by the European Commission under the ERASMUS+ program in 2020. EUniWell is formed by the eleven universities of Birmingham (UK), Cologne (Germany), Florence (Italy), Inalco (France), Konstanz (Germany), Linnaeus (Sweden), Murcia (Spain), Nantes (France), Santiago de Compostela (Spain), Semmelweis (Hungary), and Taras Shevchenko National University of Kyiv (Ukraine). EUniWell is furthermore supported by more than 100 associated partners from all sectors of society. EUniWell is planned to become a multi-campus European university that empowers cutting-edge research and education, promotes internal well-being for students, educational programs, and the university as a whole.

Stipendium Hungaricum

The Stipendium Hungaricum Scholarship Program was launched in 2013 by the Hungarian Government. The core mission of the program is to support the internationalization of Hungarian higher education by raising the number of international students in Hungary. Semmelweis University joined the program in 2018, which resulted in a constant increase in the number and diversity of our international students.

Stipendium Hungaricum Sports Scholarship Program

The purpose of the Stipendium Hungaricum Sports Scholarship program is to support international students with outstanding sport achievements to continue their studies in Hungarian higher education institutions. Semmelweis University was among the first to enter the program, giving the opportunity to foreign athletes to obtain a degree in medicine or health sciences.

Hungarian Diaspora Scholarship Program

The Hungarian Diaspora Scholarship Program was launched in 2020 by the Hungarian Government. The core mission of the program is to strengthen the ties between Hungarian diaspora communities and Hungary by giving access to young people with Hungarian heritage to study in Hungary. The number of students studying in the frame of the program at Semmelweis University is steadily increasing year by year.



Student services

Student Centres Libraries open 24/7
Sporting facilities
Immigration and visa assistance
Simmelweis Career Day
Language preparation courses
International student associations
Extensive alumni support
University restaurants and cafeterias
Student housing information

Student cultural events and organizations

Freshers' Week
International Semmelweis Carnival
Simmelweis Spring Festival
Freshmen Ball
Graduate Ball

Student sporting events

Student Football Tournament
Running and Cycling races
Simmelweis Ice Carnival
University Sport Day
Medical Cup
Medic Orchestra
Simmelweis Choir

Student scientific events

Students' Scientific Association (TDK) Conference
PhD Scientific Days
Korányi Frigyes Scientific Forum
National Pharmaceutical Students' Conference



A **VIBRANT** INTERNATIONAL **COMMUNITY** AND AN UNFORGETTABLE **EXPERIENCE**

Student life

There is a rich and bustling life on and off campus with numerous recreational and extracurricular activities. This, paired with high quality student services, helps students achieve better grades, develop their intercultural competencies and enrich their overall experience. Student services fulfill a more complex role than providing academic assistance. They are especially important for international students who come from a foreign country to pursue their academic studies. Semmelweis University is continuously developing student services according to students' needs in order to provide a safe, positive and pleasant atmosphere. Students have access to administrative assistance, extensive alumni services, and numerous opportunities to participate in various cultural, athletic and social activities, ensuring their experience at Semmelweis University is a memorable one.

Official representation

- Students' Union (HÖK)

International umbrella organizations

- International Semmelweis Students Association (ISSA)
- ERASMUS Student Network (ESN Semmelweis)

National student organizations

- ASUS: African Student Union of Semmelweis
- ASAS: Arab Student Association of Semmelweis
- BISSA: British and Irish Semmelweis Student Association
- FSAS: French Student Association of Semmelweis
- FiMSA: Finnish Medical Students Association
- DSVS: Association of German-Speaking Students at Semmelweis
- SISA: Semmelweis Iranian Students Association
- ISOH: Israel Student Organization in Hungary
- Japanese Association
- SKA: Semmelweis Korean Association
- NASSA: North American Students of Semmelweis Association
- ANSA: Association for Norwegian Students Abroad
- ANSA Students Help Students
- SASS: Spanish Student Association of Semmelweis
- ISASA: Indians/South Asians Semmelweis Association
- SwiSSA: Swiss Semmelweis Students Association
- TUSA: Turkish Students Association of Semmelweis
- TKSA: Taiwan and Hong Kong Student Association of Semmelweis
- VSAS: Vietnam Student Association of Semmelweis



**REPRESENTATIVE
BODIES
SUPPORTING STUDENTS
OF ALL NATIONS**



ACCES TO A GLOBAL SEMMELWEIS ALUMNI NETWORK

Semmelweis Alumni

Semmelweis students' relationship with the institution does not end with graduation, as Semmelweis Alumni provides opportunities for personal meetings for its nearly 40,000 domestic and international alumni members. In addition, it provides a wide spectrum of self-development services and events regarding career and life management, with the aim of developing and enlivening the system of relations between Semmelweis

University and the graduate student community. We keep in constant contact with the members of our alumni community on our communication interfaces and provide daily information about our news and events. The members of our community are recognized Hungarian and international (English and German speaking) students.

"In the academic year 2022/2023, Semmelweis University celebrates the 40th anniversary of the launch of its international medical education. One highlight of the celebration series is the Semmelweis International Alumni Meeting, which provides an opportunity to strengthen the International Alumni Network, develop services, to return to the Alma Mater and have personal meetings with former professors and new students.

The outstanding professional activities of Semmelweis University's graduate students and alumni community are recognized around the world, and with their work and knowledge gained here they also support the progress of medical and health sciences. Throughout their careers, they have been important ambassadors of Semmelweis University, who are proudly considered by the Alma Mater. They are always welcome here, as it is like coming home to us."

Dr. Tamás Hegedüs, Director of the Alumni Board

A
LIFE-LONG
LASTING
EXPERIENCE
IN **BUDAPEST,**
THE BREATHTAKING
CAPITAL
OF **HUNGARY**



"Making the decision to study abroad can feel daunting, especially if it's as demanding a field as medical sciences. However, once I found what I was interested in, I found that Semmelweis University provided every opportunity I needed to improve myself. There is something for everyone, whether you are interested in patient care, research, surgery, technology or an engaging student life. Highly competent educators made sure to give everything they could to their students. Being part of this community of educators and brilliant students from all over the world was certainly worth all the effort."

Dr. Caner Turan

"Semmelweis University has been more than just an educational institute for me. It's a place that allows you to discover not only your passion for your field of studies but also yourself. It's a community that helps you initiate new friendships with people from all around the globe and a chance to explore volunteering and giving back to those who need it the most. Semmelweis is a focal point of life lessons and self-development and if I had the chance, I would do it all over again."

Dr. Maria Vrentzou

"I started in 1983, so I was member of the first German–Hungarian course ever. I left Budapest in 1985 after the first two years (Physikum). Semmelweis University was a great experience and a robust source of knowledge for my life as physician and beyond. The way of direct contact to the teachers was outstanding. At that time, we received much more than just medical content. It was a certain attitude towards the fundament of medical knowledge and of future life as a doctor, which has an ongoing impact on my daily work."

Dr. Christoph Schumacher



Semmelweis University Foundation

The main foundation of the university, the Semmelweis University Foundation is working since 1992 to support, health care, and research activities. The Foundation undertakes public benefit activities and performs public functions in the areas of health maintenance, disease prevention, healing and health rehabilitation, scientific activities, research, teaching and education, skill development, and the dissemination of knowledge.

Furthermore, the aim of the Foundation is, among other things, to embrace talented students studying at the university developing their talent, and to support projects in education, patient care, and research areas.

Support us!



Semmelweis University, Directorate of Marketing and Communication
H-1085 Budapest, Üllői út 26.

Tel.: +36-1-459-1585

Email: titkarsag.kommunikacio@semmelweis.hu

Website: <http://semmelweis.hu/english/>

Facebook: <https://www.facebook.com/semmelweisuniversity/>

LinkedIn: <https://www.linkedin.com/school/semmelweisuniversity>

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Budapest, 2023



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