

MASTER'S PROGRAM

MEDICAL ENGINEERING & eHEALTH

The master's program offers in-depth insight into the development of new eHealth applications and medical devices.

The focus areas in the program are Medical Engineering and eHealth. They cover the development of medical devices from a scientific and electronic perspective, as well as software development. Students can specialize in elective subjects such as ventilation technology, photonics, medical information systems, or mobile applications. Numerous international research projects directly at UAS Technikum Wien support students in launching their careers.

DURATION: **4 SEMESTER**	DEGREE: **MASTER OF SCIENCE IN ENGINEERING**	
LANGUAGE: **ENGLISH**	ADMISSION PLACES: **23**	ORAGNISATION FORM: **FULL-TIME**
COST: **€ 363,36 TUITION FEE, € 26,20 ÖH FEE / € 3.000 Tuition fees for students from third countries**		

CHANGE OUR TOMORROW

„In the future, we will all be able to do more to promote our health.
Our graduates are well prepared for this upheaval in the healthcare sector."
Stefan Sauermann, Program Director



1st SEMESTER	ECTS
Device Engineering	5.00
Biomedical Instrumentation	
Microprocessor Applications in Medicine	
Digital Management	5.00
Company Simulation	
Digital Leadership	
Medicine Systems	5.00
Cellular Electrophysiology and Bioimpedance	
Workflows and Communication	
Project 1	5.00
Project-Related Teamwork 1	
Specialisation 1	10.00
Advanced Programming for Medicine	
Medical Information Systems	
Modelling in Cardiovascular Systems	
Respiration Technologies	

2nd SEMESTER	
Project 2	5.00
Project-Related Teamwork 2	
Regulatory Issues	5.00
EU Law and Regulations	
Processes for Medical Device and System Design	
Data Driven Medicine	5.00
Study Design and Biostatistics	
eHealth	
Research & Productivity	5.00
Scientific Publishing	
Self Management	
Specialisation 2	10.00
Advanced/Applied Optics	
Artificial Intelligence in Medicine	
Biomechanics for Medicine	
Informatics of Biological Systems	

3rd SEMESTER	
Master Thesis Project	5.00
Science in Medicine	5.00
Advanced Analysis of Medical Data	
Scientific Skills	
Planning of Health Facilities	5.00
Clinical Engineering	
Sustainability in Life Sciences	
Business & Ethics	5.00
Business Modelling	
Ethics	
Specialisation 3	10.00
BME for Therapy & Rehabilitation	
Biosignal Acquisition and Analysis	
Electromagnetic Compatibility	
Image Analysis	

4th SEMESTER	
Masters Thesis	25.00
Masters Thesis Seminar	5.00

CAREER PROSPECTS

Graduates can design, build, and use medical devices as biomedical engineers. They can develop eHealth applications and train medical staff. They are employed by various companies as medical technology and quality assurance officers, and also work directly in hospitals or other healthcare facilities. New applications in medical technology and eHealth are bringing about significant changes in this sector, and graduates can play an important role in this process.

FH TECHNIKUM WIEN

FURTHER INFORMATION, CURRENT DATES AND CONTACT DATA: www.technikum-wien.at/mme