JOINT MASTER IN BIOMEDICAL ENGINEERING







Department of Biomedical Engineering

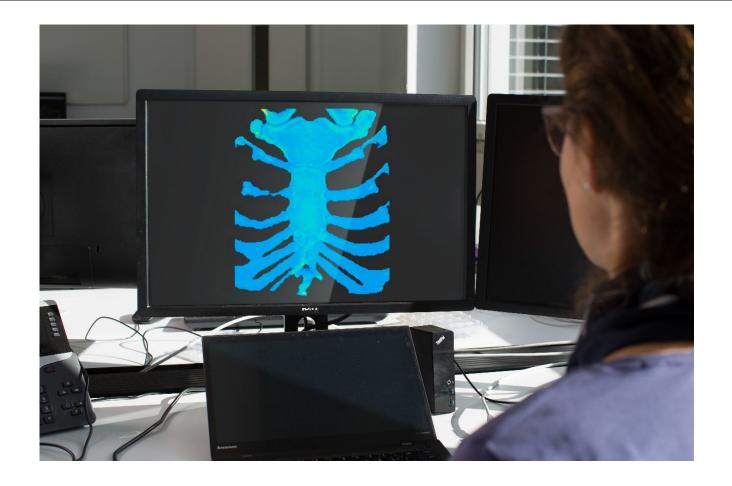


University of Applied Sciences and Arts Northwestern Switzerland School of Life Sciences

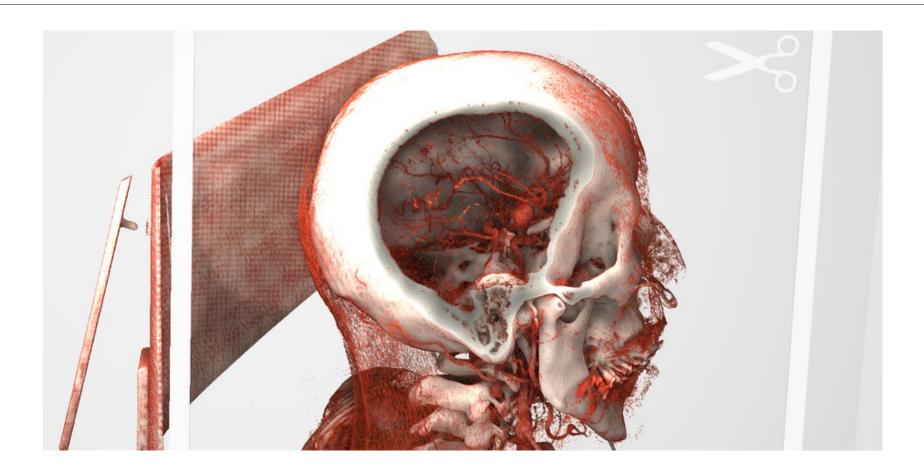










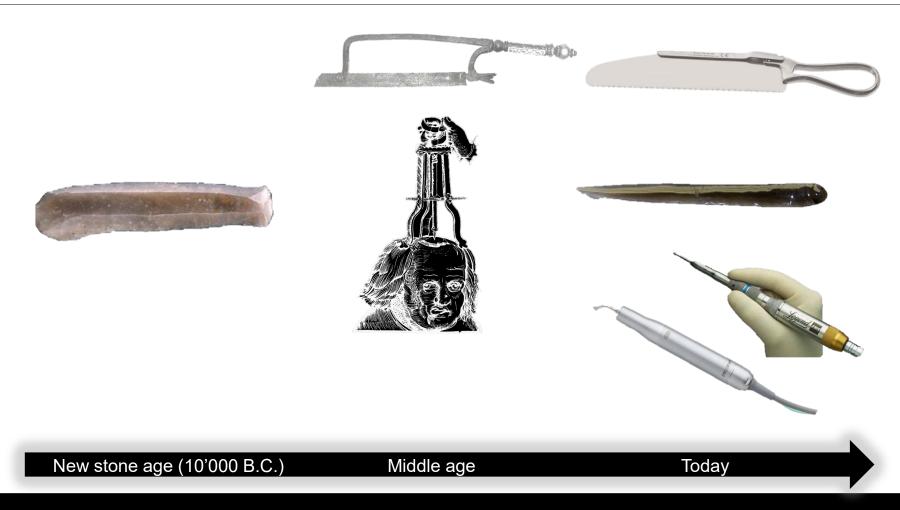








SOME HISTORY OF MEDICAL DEVICES





SOME HISTORY OF DIAGNOSIS







2 Institutions – 1 Master: Master of Science Biomedical Engineering





Department of Biomedical Engineering







ADMISSION REQUIREMENTS

Medicine related Bachelors

- Biomedicine/Biomedical Sciences
- Dental Medicine
- Forensic Sciences
- Health Science and Technologies
- Human Medicine
- Pharmaceutical Sciences
- Sport, Exercise and Health Sciences
- Veterinary Medicine

Natural Science Bachelors

- Biochemistry, Biology, Biotechnology
- Chemistry
- Computational Sciences, Data Science
- Computer Science
- Digital Life Sciences, Life Sciences and Technologies
- Materials Sciences
- Mathematics
- Medical Informatics
- Mikrotechnologies
- Micro und Medical Technologies
- Mobile Robotics
- Nanosciences
- Physics
- Photonics

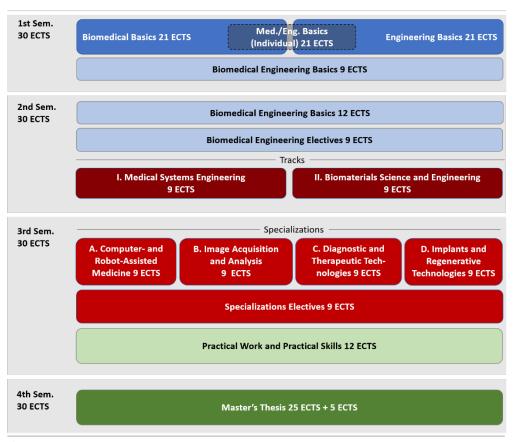
Engineering Bachelors

- Chemical Engineering
- Civil Engineering
- Electrical engineering
- Environmental Engineering and Geomatics Engineering Sciences
- · Mechanical Engineering
- Mobile Robotics
- **System Engineering**

KEY FACTS & CURRICULUM

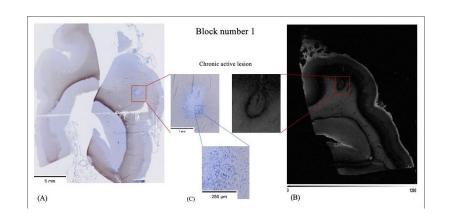


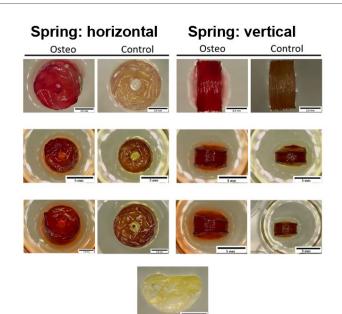
4 Semesters



^{*} Not all combinations of modules can be guaranteed

MASTER'S THESIS PROJECTS IN 2024







Identification of 9.4T MRI sequences for enhanced cellular visualization of multiple sclerosis lesions

By Elisabetta Giacomelli

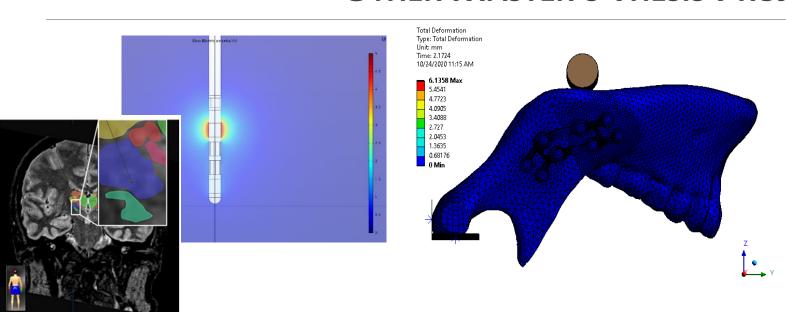
Development of a selfassembled osteochondral construct using 4D technology

By Geraldine Borer

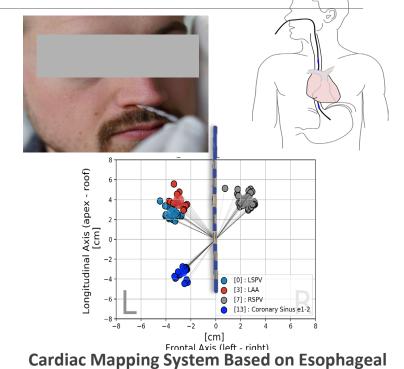
A Deep-Learning Approach for Navigated Anterior Cruciate Ligament Surgeries

By Martino Giorgi

OTHER MASTER'S THESIS PROJECTS



By A. Dietschy



Electrocardiography – Source localization on invasively

measured multi-channel electrocardiographic signals.

Deep Brain Stimulation (DBS) – Simulation and Experimental Work - Modelling of electrical field distribution within phantom.

Finite Element Analysis and Validation of Mandible Fracture Treatment – Modelling and Biomechanical Testing.

By M. Maintz

By multiple students



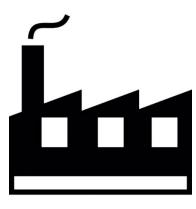
CAREER PROSPECTS



Academic Research



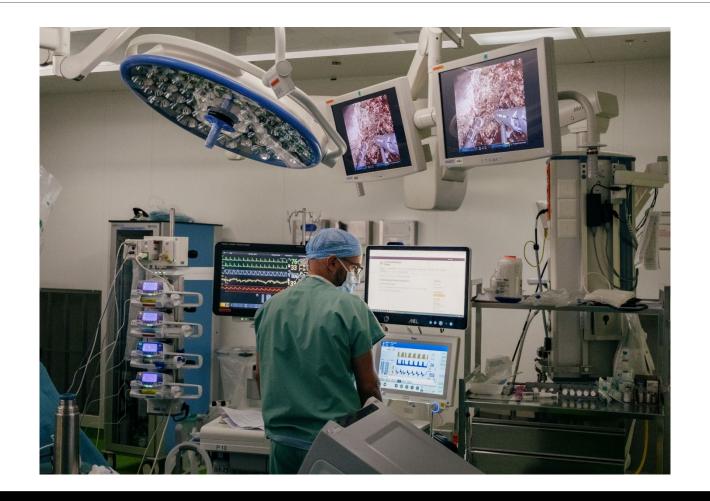
Healthcare



Industry



CAREER IN HEALTHCARE



CAREER IN INDUSTRY











SELFCARE SOLUTIONS





















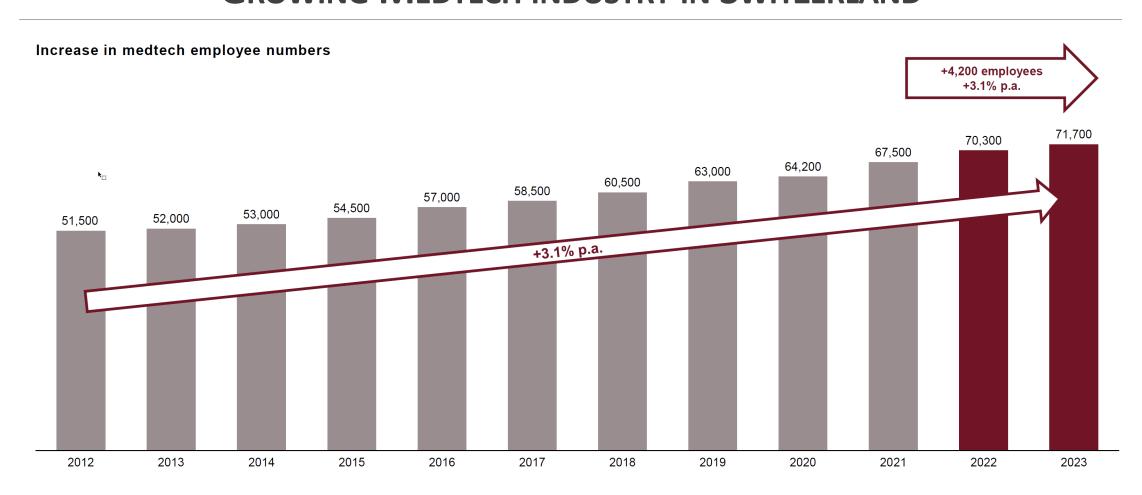






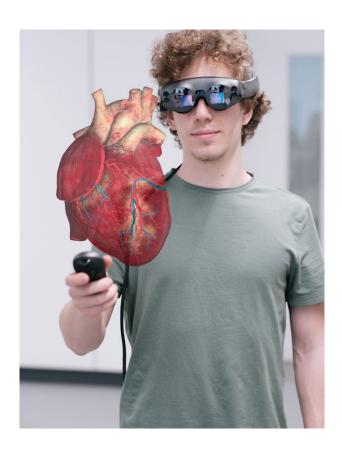


GROWING MEDTECH INDUSTRY IN SWITZERLAND

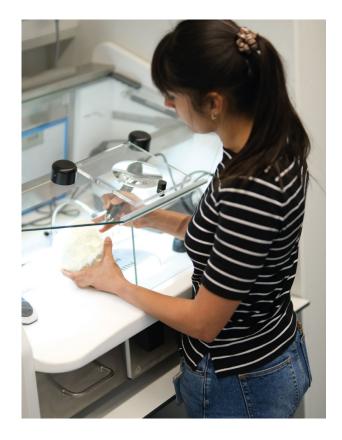




ACADEMIC RESEARCH CAREER







Thank You For Your Interest!

QUESTIONS? CONTACT US:



MEET US:

