JOINT MASTER IN BIOMEDICAL ENGINEERING







Department of Biomedical Engineering

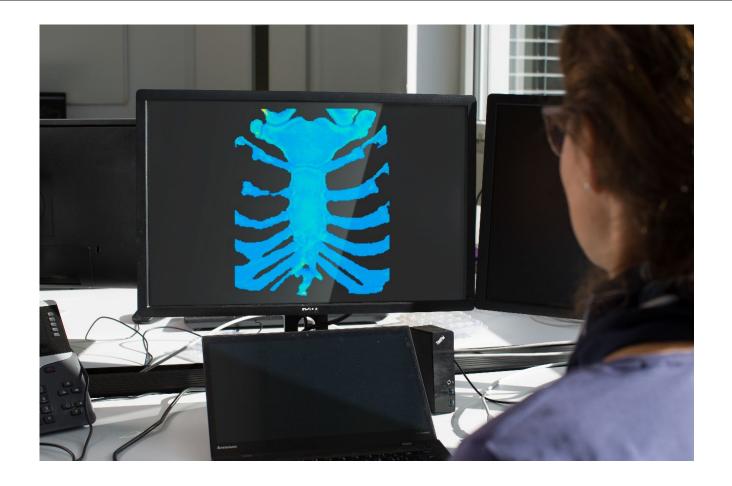


University of Applied Sciences and Arts Northwestern Switzerland School of Life Sciences

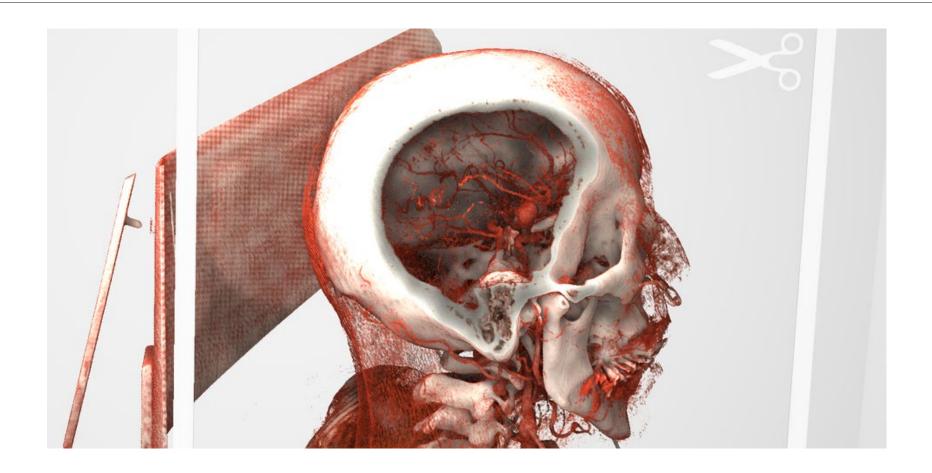








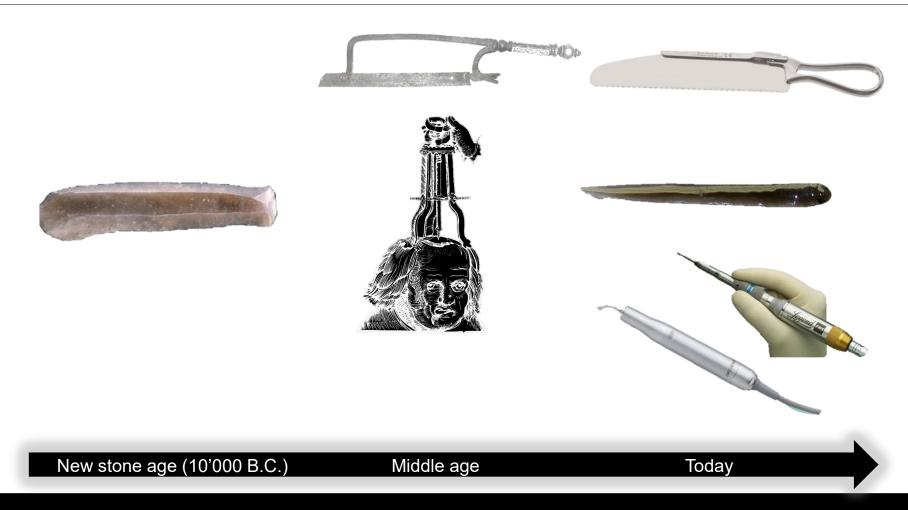








SOME HISTORY OF MEDICAL DEVICES





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
- Health Science and Technologies
- Human Medicine
- Pharmaceutical Sciences
- Sport, Exercise and Health Sciences

Natural Science Bachelors

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

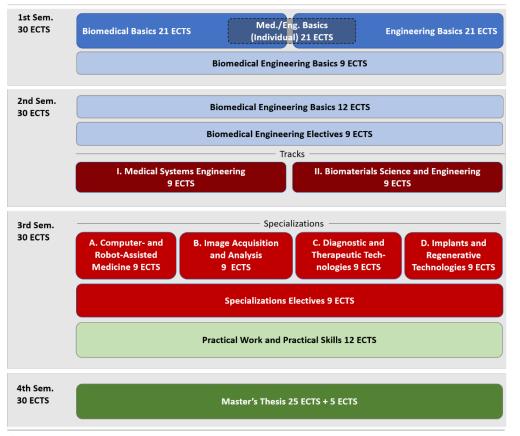
Engineering Bachelors

- Civil Engineering
- Chemical Engineering
- Electrical engineering
- Mechanical Engineering
- Mobile Robotics
- System Engineering

CURRICULUM



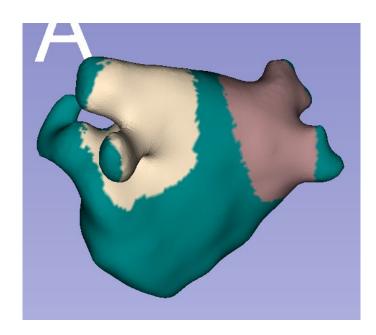
Semesters



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

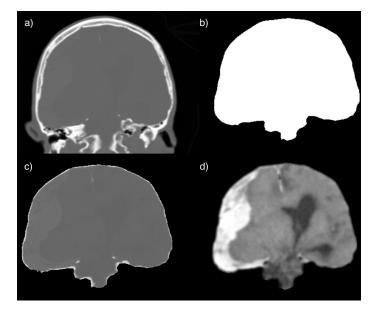


MASTER'S THESIS PROJECTS IN 2023



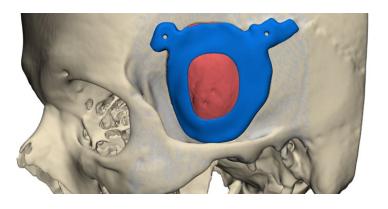
Automatic Curvature Analysis of the Left Atrium from Cardiac Magnetic Resonance Imaging

By Hélène Corbaz



Automated detection of cardiac and neurological causes of death in post mortem CT data

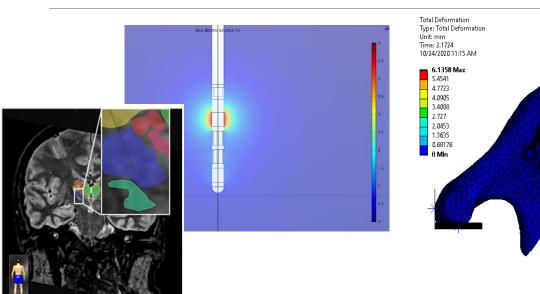
By Andrea Zirn

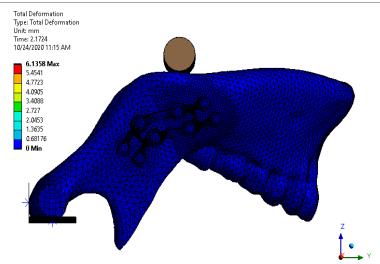


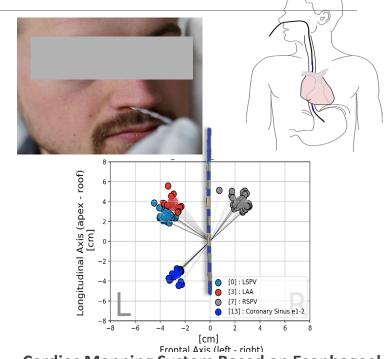
Effects of sterilization on the accuracy and the mechanical performance of 3D-printed surgical guides materials

By Adriana Manea

OTHER MASTER'S THESIS PROJECTS







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.

Cardiac Mapping System Based on Esophageal Electrocardiography – Source localization on invasively measured multi-channel electrocardiographic signals.

By A. Dietschy

By multiple students

By M. Maintz



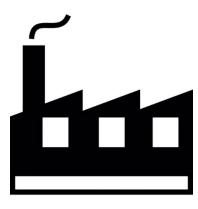
CAREER PROSPECTS



Academic Research



Healthcare



Industry



CAREER IN HEALTHCARE



CAREER IN INDUSTRY



















SELFCARE SOLUTIONS



















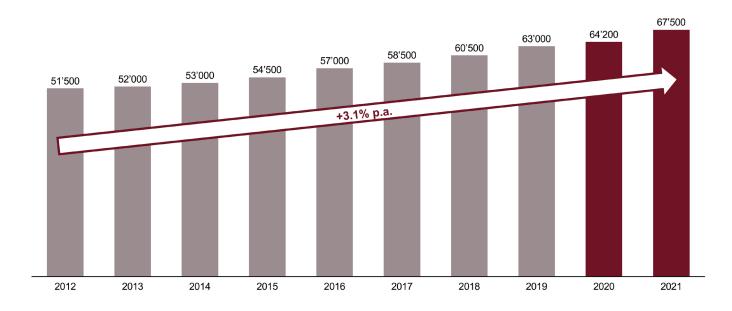




GROWING MEDTECH INDUSTRY IN SWITZERLAND







Quelle: SMTI-Umfrageergebnis 2022; SMTI-Branchenberichte

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ACADEMIC RESEARCH CAREER



Thank You For Your Interest!

QUESTIONS? CONTACT US:



MEET US:

