Fachhochschule Nordwestschweiz
Hochschule für Life Sciences

Universität Basel

Joint MSc in Biomedical Engineering

In the Biomedical Engineering specialisation, cutting edge technology and engineering drive innovation in diagnostics and therapy.

biomedicalengineering.ch


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Quick Facts

Joint Master's in Biomedical Engineering

Part time study possible; full time study recommended!

- √ **The Master's programme in Biomedical Engineering is a joint degree offered by the FHNW School of Life Sciences and the University of Basel.**
- √ **Designed for BSc graduates with a background in engineering or medicine, as well as in disciplines such as maths, computer science, physics, biology and similar**
- √ **Students develop solid theoretical and applied knowledge of biomedical engineering, including:**
  - state-of-the-art medical image acquisition and analysis
  - a broad range of current and novel diagnostic and therapeutic technologies
  - innovative medical robotics and surgical visualization systems
  - additive and conventional manufacturing
  - implant characterization
  - regenerative technologies
- √ **4 semesters full-time; part-time possible with extended study, 120 ECTS**
- √ **Master's thesis: 25 +5 ECTS credits, modules: 90 ECTS credits**
- √ **Students with a good BSc degree in a medical, natural sciences or engineering discipline (or equivalent) may apply**
- √ **Admission deadlines: April 30th**
- √ **Start of studies: mid-September (calendar week 38)**
- √ **Tuition fees: CHF 850.– per semester**

Study Biomedical Engineering in Basel – the hub of the European healthcare industry

The Biomedical Engineering MSc: where cutting edge technology and engineering drive innovation in diagnostics and therapy. This joint degree is offered by the FHNW School of Life Sciences and the University of Basel.

Biomedical Engineering is a rapidly developing new discipline that applies engineering tools and methods to medical diagnostics and treatments. Students pursuing our programme can specialize in implants and regenerative technologies, image acquisition and therapies, computer- and robot-assisted surgery, or diagnostic and therapeutic technologies. This interdisciplinary course in medical devices for diagnostics and therapy puts our students in a privileged position to develop a thriving career in an academic, research or industrial environment.

Europe’s largest life sciences centre: Basel

The FHNW School of Life Sciences is at the heart of Europe's largest life sciences centre, at the crossroads of the medical and pharmaceutical industries. We are committed to developing new methods to deliver better therapies and diagnoses and improve people's quality of life. We take advantage of our extensive industry network to give our students a comprehensive insight into real-life applications. Students are directly involved in current projects throughout their studies and work in partnership with industry on the critical issues of the future.

Fotografien: Pati Grabowicz, Nicolas Zonvi (FHNW School of Life Sciences) / Mark Niedermann, Daniel Winkler (University of Basel)

Career Opportunities

The world-class education provided by this programme is an outstanding preparation for a career in academia, research or industry. It combines an industrial mindset with a strong scientific foundation, enabling participants to pursue either an industry-oriented or a scientific career (e.g. doctoral programme). Employment options for our graduates include working with medical experts in clinical settings and healthcare institutions.

Programme Goals
Students develop solid theoretical and applied knowledge of biomedical engineering, including state-of-the-art medical image acquisition and image analysis, a broad range of current and novel diagnostic and therapeutic technologies, innovative medical robotics and visualization systems for surgery, as well as additive and conventional generation and characterization of implants and regenerative technologies.

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