Master of Science in Medical Informatics

The FHNW University of Applied Sciences and Arts offers a new master program in Medical Informatics as a cooperation of the School of Life Sciences and School of Business regarding the application of digital technologies and artificial intelligence in healthcare.

Description

The master's program is in English and focuses on the latest information technology for the medical and pharmaceutical industries. Students will acquire knowledge and learn methods from the field of IT and develop expertise in biomedical data analysis, the application of artificial intelligence, visualization technologies, the handling of big data and related economic issues. As an example, the program will address the question of how digitalization impacts drug discovery and development, hospital processes and the health sector in general. An important focus of the master's is personalized medicine. Work related to digital data opens up further education and application areas such as data security, control mechanisms, decision-making models and ethical issues.

The numerous internships during the program will enable students to analyze health data as well as apply and develop software for hospitals and the pharmaceutical industry. Leading providers from the healthcare industry will be actively involved in the study program and will address innovative topics in seminars.

Content

The master's program in Medical Informatics provides current know-how on the following areas:
– Digital transformation in healthcare
– Biomedical data science
– Medical software development
– Digitalization of processes
– Compliance management and governance IT
– Business intelligence
– Machine learning in personalized medicine
– Knowledge processing and decision making
– Artificial intelligence in drug discovery

- Cyber security and cyber resilience
- User-centered design and design thinking
- Digital economy and innovation
- Innovation trends in medical informatics
- Applied computational intelligence

Target Audience
The Master of Medical Informatics is aimed at students who have a FH Bachelor's degree in life sciences, computer science and information systems and/or business administration or have equivalent educational background and professional experience (college or university degree).

Graduation
Degree of Master of Science in Medical Informatics FHNW.

Date
The master of Medical Informatics starts in the Autumn Semester 2019.

Place
Fachhochschule Nordwestschweiz
School of Life Sciences
Hofackerstrasse 30
CH-4132 Muttenz

Cost
Application fee: CHF 200.
Semester fee: CHF 700 (CH & EU); CHF 5000 (non EU).

Registration and Contact
Registration is open online until April 30th, 2019:
www.fhnw.ch/en/degree-programmes/lifesciences/master/application-msc-medical-informatics

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