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ACTIVITY SCOPE

Medical Engineering at Friedrich-Alexander Universität Erlangen-Nürnberg

www.zimt.fau.eu
Concept and core activities

Representing the medical engineering focus at Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

Providing an interface for regional and international activities in the field of medical engineering for the university, clinics and industry

Assisting startup entrepreneurs

Managing the applications for the medical engineering degree program for bachelor's and master's degrees

Offering courses, seminars and lectures in the interdisciplinary context of medical technology

Supporting and coordinating grant proposals

Center of science and research in Erlangen-Nuremberg

Excellent research environment at the largest university in Northern Bavaria: Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

Cooperation of numerous departments from the Faculties of Engineering, Sciences and Medicine, as well as the university’s clinics

Above-average density of businesses and service providers in the field of medical engineering in the European Metropolitan Region of Erlangen-Nuremberg

Ties with the national leading-edge cluster Medical Valley EMN e.V., offering a platform for more than 500 regional medical engineering companies, extramural research

Scientific focus and competencies

- Biomedical signal processing
- Medical imaging and image processing (CT, PET, SPECT, US, OCT)
- Instrument engineering and prosthetics
- Medical biotechnologies and biomaterials
- Telehealth, personalized medicine and therapeutic systems
- Medical and biological computer sciences
- Medical process and health management
- Medical device law and standardization
- Entrepreneur consultation

Communication between science and the general public

Networking

Interdisciplinary Education

Coordination of activities in medical engineering

Medical imaging and device technology

Grant Consulting