Our center is an essential part of the Bern Medical Hub, situated on the Bern University Hospital campus in close vicinity to the University of Bern and is part of the Swiss Institute for Translational and Entrepreneurial Medicine sitem-insel.

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UNIVERSITÄT BERN

ARTORG CENTER BIOMEDICAL ENGINEERING RESEARCH

University of Bern ARTORG Center

Biomedical Engineering that Transforms Clinical Reality



University of Bern

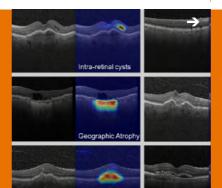
Center for Biomedical Engineering Research Murtenstrasse 50 3008 Bern

info@artorg.unibe.ch Phone +41 31 684 1400

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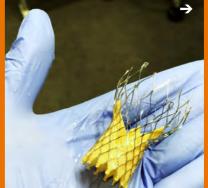
Artificial Intelligence in Health & Nutrition

Machine learning approaches nutrition-conscious publics with user-friendly AI tools.



Artificial Intelligence in Medical Imaging

Applies AI methods to develop ventional radiology and



Cardiovascular Engineering

Jses fluid mechanics to develop new diagnostic tools and improve the long-term durability and bio-compatibility of implants and therapeutic

ARTORG Center for Biomedical

Engineering Research

ARTORG is the University of Bern's transdisciplinary Center of Excellence for medical technology research. Its mission is to tackle unmet clinical needs and anticipate future challenges in diagnosis, monitoring and treatment to create viable healthcare technology solutions with imagination, agility and purpose.

Covered topics range from discovery and basic research to clinical translation. In its unique constellation as an engineering department within a medical faculty, the ARTORG Center has been delivering 15 years of ambitious biomedical engineering research, teaching and development across a wide variety of clinical areas.

We are committed to excellence in academic education. The ARTORG offers globally leading master's and doctoral programs in biomedical engineering and AI, specialist courses for clinicians and networking events with industry partners. We offer master's and PhD students the possibility to translate skills and academic experiences into MedTech innovation at the forefront of healthcare.



Computational Bioengineering

Neuro Robotics Group

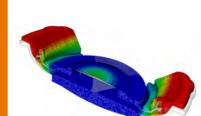
neurosurgery based on

Focuses on the development

Manages the ARTORG's 3D

printing and electronics core

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Gerontechnology and Rehabilitation



6.0

Hearing Research Laboratory

clinical studies.

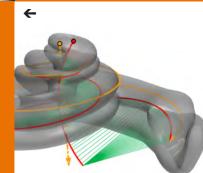
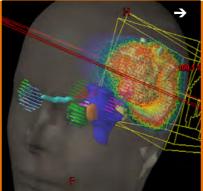


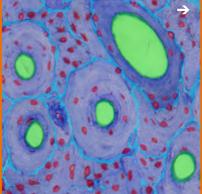
Image-guided Therapy

and stereotactic guidance



Medical Image Analysis

nal biomedical engineering technologies to quantify, diagnose, and follow-up disorders and diseases.



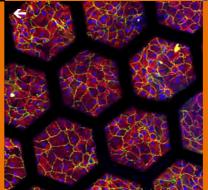
Musculoskeletal Biomechanics

Explores multiscale structureand bone-implant systems to improve prevention, diagnosis and treatment of skeletal disea-



Organs-on-Chip Technologies

recreate the cellular microenvironment of the respiratory tract or drug development and



Urogenital Engineering

nnovates technologies to of urinary tract diseases (urinary retention, incontinence, kidney stones) which have a significant mpact on health and quality



Mechanical Design & Production

to production to enable state-of-the art experimental biomedical engineering



Education

Master of Science in Artificial Intelligence in Medicine

Master of Science in Biomedical Engineering

Electronic Implants & Image-guided Therapy