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**UNIVERSITY
OF BERN**

ARTORG CENTER
BIOMEDICAL ENGINEERING RESEARCH

Research Assistant (40%)

The **ARTORG Center for Biomedical Engineering Research** is the University of Bern's transdisciplinary Center of Excellence for medical technology research. Its mission is to tackle unmet clinical needs and envision future challenges in diagnosis, monitoring and treatment to create viable healthcare technology solutions with imagination, agility and purpose. Its projects run from discovery and basic research to clinical translation.

Work in the Image Guided Therapy (IGT) group focusses on disruptive approaches to image- and sensor-guided technologies for manual and robot-assisted surgery and interventions.

To treat spinal instabilities, surgeons insert pedicle screws to fuse adjacent vertebra. We are currently working on a sensor-enhanced surgical robotic platform for pedicle screw insertion. For this project, the IGT group seeks a research assistant to help with the development of a testbench for tissue transition detection using impedance spectroscopy.

Tasks

- Drawing CAD models of a testbench
- Verification of testbench components

Requirements

- B.Sc. or M.Sc in biomedical or mechanical engineering
- Experience with mechanical prototype design
- CAD design (Solidworks)

Other aspects that will be positively considered:

- Fluent in German and English
- Interest in ex vivo study preparation, execution and analysis
- Experience in 3D printing

We offer

- Initial contract duration of 12 month at 40%
- Start date: as soon as possible

Application

Interested candidates, please send your application to Mareike Anderson at mareike.anderson@artorg.unibe.ch containing the following documents

- Letter of motivation
- CV
- Contact of a reference

About the University of Bern

The University of Bern is located at the heart of Switzerland. Internationally connected and regionally anchored, it cultivates exchange with society and strengthens partnerships between science, medicine, business, and politics. The University of Bern is committed to a deliberate and ethical responsibility towards people, animate and inanimate nature. As an important educator, promoting enterprise and industry in the region and beyond, it distinguishes itself through problem-oriented research into questions of pressing social relevance. The University of Bern is an equal opportunity employer, promotes healthy work-life-balance and safe working environments, and strives to increase the number of women at all levels in its faculties.