Aalen University

Institute for High Integrity Mechatronic Systems (ZMS)

# Modification to Legsimulator regarding soft tissue

The need for innovative medical devices for lower limb rehabilitation is growing. The ZMS is working on the research for exoskeletons and active orthoses. As part of the research, we develop a Legsimulator for human gait activities.

## We offer:

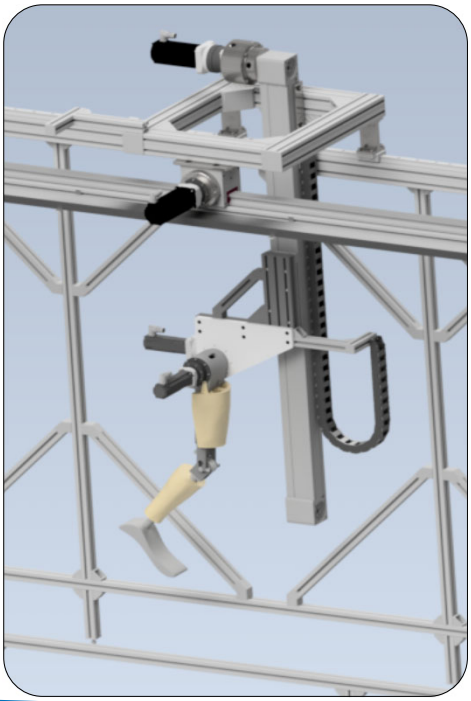
- Theses (Bachelor or Master) and research masters (MSD) with subject-specific supervision
- Flexible working hours and independent work
- Practical experience in the field of applied Research
- Young and motivated team

## Your profile:

- Degree in mechatronics, electrical engineering, computer science or similar degree programs / relevant work experience
- Profound knowledge in CAD
- Passionate to learn, highly motivated, responsible, independent

## Your tasks:

- Research and Development of capable concepts to simulate soft tissue on artificial leg of the Legsimulator
- Development of a sensor concept to quantify pressure on artificial soft tissue
- Implementation of a prototype of an artificial soft tissue simulator
- Verification of implantation



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Cooperation partners:

Advanced Mechatronics

Schad
Das Gesundheitshaus im Ostalbkreis