

## STUDY PROGRAM BIOMECHANICAL ENGINEERING



### Study Program Biomechanical Engineering (BiME)

Medical implants, assistance systems, orthoses and prostheses - all biomechanical systems that are indispensable to us. As an important driver of medical progress, the medical technology industry is booming. The demand for innovative ideas and their implementation in high-performance, sustainable and reliable medical products is increasing.

With our master's degree program in **Biomechanical Engineering**, Otto von Guericke University trains highly qualified engineers for this future-oriented sector. Optimal study conditions are provided by excellent equipment in the teaching and research facilities, very close cooperation with the Magdeburg University Hospital, and comprehensive student support.

On our website you will find everything worth knowing and highlights about the study program. In addition to current news (<https://www.bime.ovgu.de/News.html>) from the study program, > students ([https://www.bime.ovgu.de/Information\\_for\\_BiME\\_students.html](https://www.bime.ovgu.de/Information_for_BiME_students.html)) and > prospective students (<https://www.bime.ovgu.de/Prospective+students.html>) will find all important information. Contact can be made with our study program advisor, > Karsten Harnisch (<https://www.bime.ovgu.de/Contact.html>), at any time. > Online application (<https://www.fmb.ovgu.de/International+Students.html>) is possible every winter semester.

#### News

- ▶ Life-long artificial hips?
- ▶ Student workshop of the FMB
- ▶ Interview with BiME students
- ▶ A look behind the dental technology
- ▶ Biomechanics meets orthopaedics
- ▶ Artificial heartbeats
- ▶ Semi-active knee robot in the OP

more...

#### Prospective students

#### Why study Biomechanical Engineering?

Improving the quality of human life by taking advantage of the unique interactions between engineering, technology, science and medicine!

#### Here is the detailed answer...

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#### Students

- ▶ **Relevant links** – specially for first semester students
- ▶ **Helpful information** – for a good start at OVGU and in Magdeburg
- ▶ **Master's thesis topics for BiME students**

more...



With **international Bachelor degree** | > Via uni-assist e.V. |

([https://www.ovgu.de/unimagdeburg/en/International/Incoming+\\_+Ways+to+the+University/International+Students/Full\\_Time+Studies/Applying+via+uni\\_assist+e\\_V\\_-p-107054.html](https://www.ovgu.de/unimagdeburg/en/International/Incoming+_+Ways+to+the+University/International+Students/Full_Time+Studies/Applying+via+uni_assist+e_V_-p-107054.html)) **Deadline: June 15th**

With **German Bachelor degree** | > Directly to OVGU |

([https://www.ovgu.de/en/International/Incoming+\\_+Ways+to+the+University/International+Students/Full\\_Time+Studies/Applying+Directly+to+OVGU.html](https://www.ovgu.de/en/International/Incoming+_+Ways+to+the+University/International+Students/Full_Time+Studies/Applying+Directly+to+OVGU.html)) **Deadline: July 15th**

Visit our EXOprosthetics + ENDOprosthetics Gallery - we present various medical devices that improve the quality of human life  
Modern exoskeletons support rehabilitation processes



Modern exoskeletons require the complex interaction of various disciplines

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Exoprotheses in everyday life and in competitive sports



Exoprostheses in everyday life and in competitive sports must be optimally designed for mechanical loads

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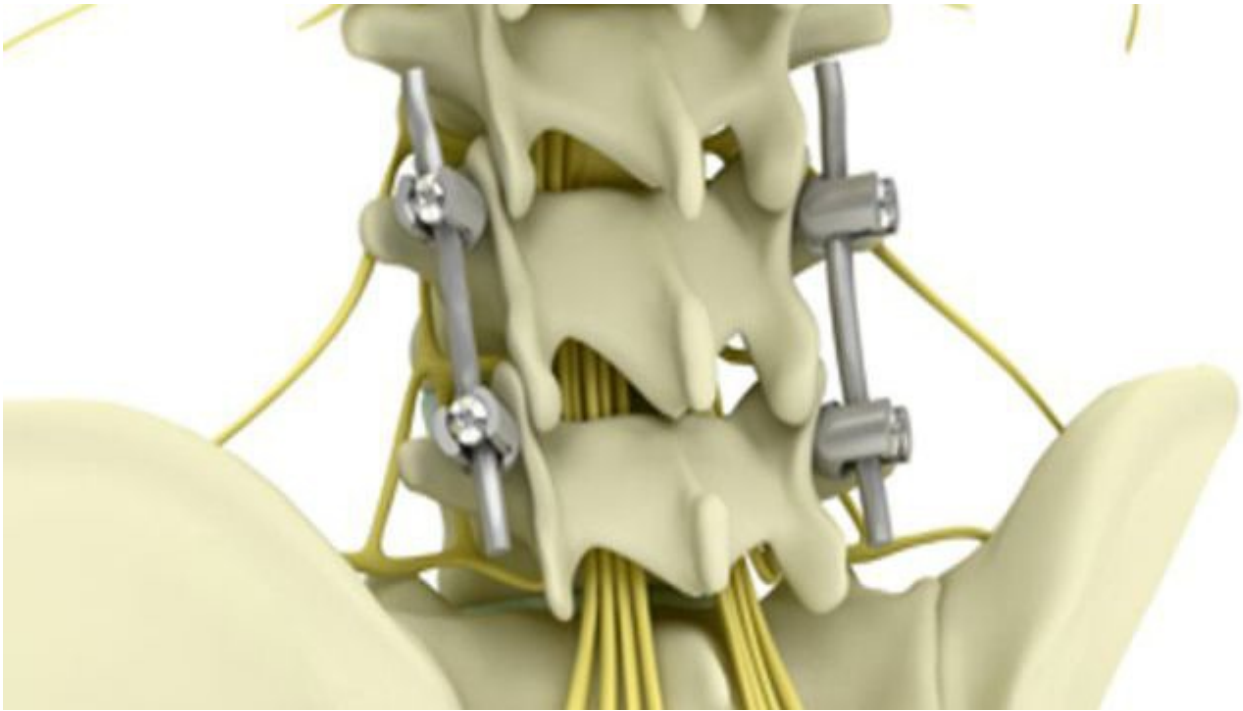
Complex challenges for hearing prostheses



Cochlear implants to improve quality of life for the deaf

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Metallic bone screws and surgical instruments



Materials for bone screws and surgical instruments must meet the highest requirements  
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