

Job application for:

Natural Sciences

MHH:

- A06-2 Impedance spectroscopy with cochlea implant electrodes**
- B02-1 Structure, composition and metagenomic characteristics of dental implant-associated biofilms across patients and over time: identifying new predictors for different health outcomes**
- B03-3 Development and validation of an adaptive oral multispecies biofilm model**
- B07-2 Polymicrobial resistance of implant-associated biofilms and anti-biofilm therapy**

LUH:

- B03-1 Optical Sensors for Responsive Implants**
- B03-2 Development of microfluidic optical sensor system**
- B08-2 Implant coating facilitating an intentional implant removal**

TUBS:

- B01-2 Enzymatically controlled drug release systems**
- B08-1 Thermoreversible crosslinking of biocompatible and biostable polymers**

HZI:

- B01-3 Development and evaluation of sensor/actor cells to visualize and counteract infections at implant surfaces**

Social Sciences

HMTMH:

- Z01-1 Health Communication Research - Field of communication science with a focus in health research**
- Z01-2 Health Communication Research - Public health with a focus on health communication**

Engineering Sciences

MHH:

- A01-1 Wear detection in total knee arthroplasty: development of in-vivo methods and retrieval analysis**
- A03-1 Basic research on acoustic emission in prosthetic interfaces**
- A04-2 Investigation of damage-tolerant implant junctions under long-term and worst-case loading scenarios**
- A05-1 Investigation of electotoxicity of cochlea implant stimulation in cell culture**
- A06-2 Impedance spectroscopy with cochlea implant electrodes**
- A07-2 Design of a Hi-fi Computational Model of Electric Stimulation of the Auditory Nerv with a Cochlear Implant**
- A08-1 Experimental development of heating strategies for implant removal**

LUH:

- A01-2 Digital Implant Lifecycle Management and Automated Manufacturing**
- A03-2 Use of acoustic emission analysis for the diagnosis of loosened hip arthroplasties**
- A03-3 Development of combined electro spray ionization pyrolysis-gas chromatograph ion mobility spectrometer for fast on-site analysis of body fluids**
- A04-1 Demand-oriented design and manufacture of damage-tolerant implant junctions**
- A05-2 Basic investigations on the corrosion behavior of platinum with regard to different material states and development of sensory gold electrodes for cochlear implants**
- A06-1 Development of an impedance spectrometric method for detecting the cochlear implant position and possible cell occupation on stimulation electrodes**
- A07-1 Surrogate modeling for the monitoring of implants**
- A08-2 Numerical modeling of the inductive implant heating for a tissue-conserving implant removal**
- B04-1 Material and process development for fine-grained biocompatible niobium alloys**
- B07-1 Simulations of biofilm development and degradation**