

The Karl Landsteiner University of Health Sciences (KL) is part of an academic and research community located at the Campus Krems, and includes a network of comprising teaching hospitals in St. Pölten, Krems and Tulln. The university offers degree programs in Human Medicine and Psychology and are tailored to the requirements of the Bologna model, opening the door to new, cutting-edge health professions. KL is committed to raising its profile in specific areas of biomedicine, biomedical engineering, and biopsychosocial sciences by entering into strategic academic and research partnerships with other institutions.

Starting in August 2020, the department of anatomy and biomechanics (division of biomechanics, Prof. Pahr) offers a research position, which is limited to the duration of three years:

## **Research Assistant m/f (Pre Doc, 30 h)**

### **Your responsibilities:**

- Participation in the research project “**PrintMyBone – 3D printing of artificial bones from clinical CT data**”.
- In particular: use of FDM and SLA printing processes, extension of these printing processes (keywords: "composite materials" and "non-planar slicing") as well as characterization of 3D printed parts (mechanical testing, micro-CT imaging). The goal is to create 3D printed structures that mimic the mechanical properties of human bones and can be used for precise, repeatable tests for the development of medical devices or for training purposes.
- Submission of research applications, participation in third-party funded projects
- Supervision of students and participation in teaching

### **Your profile:**

- Master degree in biomedical engineering, mechanical or civil engineering, technical physics, material sciences or similar fields
- handicraft skills and enjoyment of manual laboratory work
- Basic knowledge of image processing and programming
- Interest in 3D printing and scientific work
- Reliable and independent way of working
- Friendly and team oriented personality

### **Ihre Perspektive:**

You can expect a challenging job in a highly motivated team with the possibility to achieve the academic degree of a PhD (Dr. techn.).

People with disabilities who meet the required qualification criteria are expressly invited to apply and are given special consideration. The minimum classification is € 2,100 gross per month.

**Applications should include a motivation letter, curriculum vitae, and credentials and should be mailed by 16 of June 2020 referring to jobnumber “2010” to Ms. Christina Schwaiger of the Karl Landsteiner University of Health Sciences, Dr.-Karl-Dorrek-Straße 30, 3500 Krems, Austria ([bewerbung@kl.ac.at](mailto:bewerbung@kl.ac.at)).**