



UNIVERSITÄT
BAYREUTH



The University of Bayreuth is a research-oriented university with internationally competitive, interdisciplinary focus areas in research and teaching. Within the context of the Bavarian Network of Excellence "Cellular Hybrids", the Faculty of Engineering Science at the University of Bayreuth is currently seeking to appoint a



Full Professor of Additive Processes for Tissue Reconstruction ("Organ Printing")

at salary grade W 3 to commence as soon as possible. This is a fixed-term civil service position for the period up to 31 December 2025.

We are looking for an engineering-oriented scholar with a distinctive research profile with sound methodological knowledge in several of the following areas:

- development and modification of various 3D printing processes for the production of hierarchical tissue structures as bioconstructive materials
- development of hybrid biomaterials / biocomposites, e.g. for use as bioinks, and their cell biological testing in connection with additive manufacturing processes
- establishment of application-oriented analytical methods, e.g. in the field of rheological testing and viscoelastic modelling of bio-inks
- development of multi-functional nano- / micromaterials according to tissue-specific design criteria for the stimulation of organized cell growth and tissue maturation

Applicants must have an education in engineering – reflected by a degree in engineering and, in particular, a doctorate in engineering (Dr.-Ing.) – with an affinity for research in medicine and/or biology. In particular, expertise in the processing of polymeric materials through additive manufacturing, fibre spinning, coating, etc. and their convergent merging in terms of biomimetic tissue reconstruction is explicitly targeted. Experience in handling cells in cell culture is required.

Applicants should have an excellent scientific record in research through relevant publications in national and international journals or patents and demonstrate dedication in academic teaching. Experience in interdisciplinary teaching and research is expected, as is international networking. Several years of work in industry or experience in industrial practice would be welcome. Cooperation with existing research groups in the faculty is expressly desired, and participation in the cross-faculty and cross-university EVUK Cluster "Cellular Hybrids" is of central importance.

The professorship is expected to offer modules for the English-taught master's programme Biofabrication and to contribute to the German-taught bachelor's programmes Engineering Science (focus on biotechnology and chemical process engineering), Environmental and Resource Technology, and Materials Science and Engineering, as well as to the master's programmes Sports Technology, Environmental and Resource Technology, and Materials Science and Engineering.

The general administrative requirements for hiring professors at universities in Bavaria apply. A complete description of the vacancy can be found at www.uni-bayreuth.de/en.

Applications (CV including a list of publications, list of courses taught, experience obtaining external funding, as well as copies of certificates and diplomas) are to be addressed to Prof. Dr. Ruth Freitag, Dean of the Faculty of Engineering Science, and submitted via <https://uni-bayreuth.berufungsportal.de> by **7 October 2022**. Applicants are welcome to direct questions and requests for further information to the Dean at dekanat.ing@uni-bayreuth.de. Application documents will be deleted in accordance with data protection law following the conclusion of the appointment process.