



## **International Workshop in the Field of Biomedical Engineering organized by the Technical University of Cluj-Napoca, Romania within the ERASMUS KA220 BIOMEDIX Project – 10 October 2025**

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The Technical University of Cluj-Napoca (UTCN) organized, on October 10, 2025, within the framework of the ERASMUS KA220 BIOMEDIX project, an international workshop dedicated to biomedical engineering — an event that brought together over 150 participants, including faculty members and students (bachelor's, master's, and PhD levels) from UTCN, representing various fields such as Manufacturing Engineering, Mechatronics and Robotics, Medical Engineering, and Materials Science and Engineering, as well as from the University of Medicine and Pharmacy of Cluj-Napoca.

The event also gathered representatives of the BIOMEDIX project partners, including Riga Technical University (Latvia, coordinating institution), Polytechnic University of Cartagena (Spain), Poznań University of Technology (Poland), University of Niš (Serbia), Juraj Dobrila University of Istria (Croatia), and the companies viscoTec (Germany) and Materialise (Belgium), along with two Romanian companies — Zala Medical and Nutechnologies — both active in the field of 3D-printed medical product manufacturing.

The workshop program featured a series of presentations delivered by students and faculty members from the BIOMEDIX consortium (especially from UTCN), who expressed interest in developing interdisciplinary diploma projects in the field of 3D printing and bioprinting of medical products, in collaboration with the University of Medicine and Pharmacy of Cluj-Napoca and with the support of the participating companies. These companies offered practical solutions for implementing such ideas during the BIOMEDIX project implementation period (2024–2027).

In this context, Materialise (Belgium) concluded the event with a special session on cranial implant design based on CT images using the MIMICS software. Students received free trial licenses and will benefit from technical support from the company in developing diploma projects in this field, as part of the BIOMEDIX project.

As part of the ongoing BIOMEDIX activities, several similar international events will be organized in the future: a workshop and a multiplier event at the Technical University of Cluj-Napoca (March and October 2026), a hackathon at the Poznań University of Technology, Poland (May 2026), and a summer school at the Riga Technical University, Latvia (July 2026).



These activities aim to support students interested in developing diploma projects and publishing scientific papers in prestigious journals in the field of biomedical engineering, in collaboration with the academic staff involved in the BIOMEDIX project.

Further details about the BIOMEDIX project and upcoming events can be found at: <https://bini.rtu.lv/biomedix/>











