POLITECNICO MILANO 1863

Politecnico di Torino

UNIVERSITÀ DEGLI STUDI DI MILANO

FINAL WORKSHOP

I PRINT MY BONE

Artificial Intelligence-based design of 3D PRINTed Scaffolds for the repair of critical-sized BONE defects

13 February 2026
Politecnico di Milano – Aula Lombardi Building 6
Online session is also available at this link

9:20 – 9:30	Prof. **Pasquale Vena** (Politecnico di Milano) Welcome from the project coordinator
9:30 – 10:00	Prof. **Serena Graziosi** (Politecnico di Milano) Bioactive materials from biomass upcycling for 3D-printed wearable breast skin treatments
10:00 – 10:30	Prof. **Hamada Elsayed** (Univ. degli Studi di Padova) Additive Manufacturing of Biosilicate Glass-Ceramics Using Preceramic Polymers and Engineered Fillers for Bone Tissue Regeneration
10:30 – 11:00	Coffee break
11:00 – 11:30	Dr. Ing. **Luca D'Andrea** (Politecnico di Milano) Advanced strategies for Ceramic Scaffold Design in Bone Tissue Engineering
11:30 – 12:00	Dr. Ing. **Massimo W. Rivolta** (Univ. degli Studi di Milano) The role of Generative AI in the inverse design of TPMS scaffolds
12:00 – 12:30	Ing. **Valentina Rigano** (Politecnico di Torino) Characterization of the silicate bioactive glass BG1d and development of printable inks for vat photopolymerization