

Hands-on Short Course on 3D BIOPRINTING FOR PHARMACEUTICAL AND BIOMEDICAL APPLICATIONS

Three-dimensional (3D) bioprinting is an emerging technology with the potential to produce tissues, organs, and pharmaceutical products. As such, it is garnering significant interest in the field of human healthcare. This course aims to provide knowledge and technical skills in bioprinting that are suitable for pharmaceutical and biomedical applications. The course covers the fundamentals and latest advancements in bioprinting technology and its translational applications. The two-day program is ideal for students, researchers, clinicians, and industrial personnel interested in learning about this technology from global leaders in academia and industry and receiving hands-on training in bioprinting.

Key benefits of this course:

- To acquire knowledge on bioprinting and their applications.
- To learn from experienced instructors from academia and industry.
- To experience the transformative power of hands-on learning.
- To identify new start-ups in healthcare areas.
- To initiate academic and industrial collaboration.



REGISTER NOW

Day 1 (October 23, 2025)

Forenoon Session (10:00 to 13:00)

Module 1: An Introduction to Bioprinting
Module 2: Biomaterials, Cells and Bioink Formulation
Module 3: Cell Imaging in 3D Microenvironments

Afternoon Session (14:00 to 17:00)

Module 4: Extrusion-based Bioprinting and its Applications
Module 5: Bioprinting in Pharmaceuticals
Module 6: Bioprinting in Regenerative Medicine

Day 2 (October 24, 2025)

Forenoon Session (10:00 to 13:00)

Module 7: Bioprinting Demo-1

Afternoon Session (14:00 to 17:00)

Module 8: Bioprinting Demo-2

Closing Session

Assessment and Evaluation

Course directors



Dr. Murugan Ramalingam
Faculty of Pharmacy, UPV/EHU
murugan.ramalingam@ehu.eus



Dr. Jose Luis Pedraz
Faculty of Pharmacy, UPV/EHU
jose Luis.pedraz@ehu.eus

Course instructors

Dr. Murugan Ramalingam, UPV/EHU
Dr. Denis Scaini, UPV/EHU
Dr. Sandra Ruiz Alonso, UPV/EHU
Dr. Jon Zarate, UPV/EHU
Nicola Paccione, Tecnalia

Dr. Andrew Shevchuk, Imperial College London, UK
Dr. Thomas Webster, InnoShapes Inc, USA
Dr. Yu Shrike Zhang, Harvard University, USA
Dr. Sean Murphy, Wake Forest University, USA
Dr. Deepak Kalaskar, UCL, UK

Venue

Centro de investigación Lascaray ikergunea.
Salón de actos. University of the Basque
Country (UPV/EHU) - Campus de Álava.
Address: Avenida Miguel de Unamuno, 3, 01006
Vitoria-Gasteiz, Araba, Spain.

Fees & registration

Course fee: €84.96

Registration: <https://admin.uik.eus/matriculation/en?codigo=314-25> (or use the QR code)

Registration deadline: October 20, 2025

