

Utrecht Summer School: '3D Printing and Biofabrication', July 2026		Program			
	Time	Location	Topic	Speaker	
Monday	13-jul	UMC Heidelberglaan 100 Pink college room	Check in and coffee		
			10.00 - 10.15	Welcome & Course Overview	Jos Malda (UMCU, Netherlands)
			10.15 - 10.40	Student introductions	Camille Bionhomme (UMCU, Netherlands)
			10.40 - 11.15	Basics of Additive Manufacturing	Riccardo Levato (Utrecht University, Netherlands)
			11.15 - 11.45	3D technology in modern healthcare	José Magré (UMCU, Netherlands)
				Lunch (included)	
			11.45 - 12.45	AI powered Bioprinting	Hyunho Mo (UMCU Utrecht, Netherlands)
			12.45 - 13.15	Generation of 3D anatomical models using medical data	Wout de Swaef (Materialise NV, Belgium)
			13.15 - 15.00	Coffee break	
			15.00 - 15.30	Shape morphing biomaterials for additive manufacturing	Tina Vermonden (Uni Utrecht)
			15.30 - 16.00	Advanced technologies for bioprinting at organ-scale cell density	Yu Shirke Zhang (Harvard Medical School)
			16.00 - 16.45	Explaining assignments	Jos Malda / Riccardo Levato
16.45 - 17.00	Work on assignment				
	17.00				
Tuesday	14-jul	University of Applied Science Location: Padualaan 99	Introduction fablab	Joris van Tubergen	
			9.00 – 9.30	1.Bands-on 3d printing	
			10.00 - 12.00	2.Advanced 3D print strategies and understand gcode editing 3.Bands-on lasercutting 4.Extreme prototyping. Solve a problem and make a prototype.	1. Gabriel Groesbacher 2. Bram Nijhoff 3. Georgia van der Linden
			12.00 - 13.00	Lunch with lecture about scanning for prostheses	
			13.00 – 15.30	1.Bands-on 3d printing 2.Advanced 3D print strategies and understand gcode editing 3.Bands-on lasercutting 4.Extreme prototyping. Solve a problem and make a prototype.	1. Gabriel Groesbacher 2. Bram Nijhoff 3. Georgia van der Linden
15.45 - 17.45	Start workshops, choosing 1 out of 3.				
18.00	End				
Wednesday	15-jul	UMC Heidelberglaan 100 Pink college room	Introduction to Regenerative Medicine & Stem Cells	Bernard Roelen (Utrecht University, Netherlands)	
			08.30 - 09.00	From biomedical bioprinting to biotechnology and towards space...	Michael Gelinsky (TU Dresden, Germany)
			09.00 - 09.45	Coffee break	
			09.45 - 10.00	High-resolution Laser Patterning for Biomedical Applications	Aleks Ovsianikov (TU Wien)
			10.00 - 10.30	Soft robotics	Simone Schürle (ETH Zürich)
			10.30 - 11.15	Electrowriting in tissue engineering and biofabrication	Tomasz Jüngst (Uni Würzburg)
			11.15 - 11.45	Meet the expert - Lunch	
			11.45 - 13.00	Bioassembly of cells and materials for biofabrication	Joao Mano (Uni Aveiro)
			13.00 - 13.45	Regulatory aspects in biofabrication and medical 3D printing	Hanneke Later Nijland (Genome Lawyers)
			13.45 - 14.15	Organ on-a-chip technologies	t.b.a.
			14.15 - 14.45	Coffee break	
			14.45 - 15.00	Printing cartilage	Jos Malda (UMCU, Netherlands)
			15.00 - 15.30	Advances and perspectives in biofabrication	Juergen Groll (Würzburg University, Germany)
15.30 - 16.00	Work on assignment				
15.45 - 17.30					
Thursday	16-jul	Hubrecht / RMCU Uppsalaalaan 8 Auditorium 08.30 -12.30	Volumetric Bioprinting for Fabrication of Highly Complex Living Structures	Paulina Nunez Bernal (UMC Utrecht, Netherlands)	
			08.45 - 09.15	Dynamic materials for biofabrication	Matt Baker (Maastricht University, Netherlands)
			09.15 - 09.45	Coffee break	
			09.45 - 10.00	Adult Stem Cells for Advanced In Vitro Models and Whole Organ Engineering	Bart Spee (Utrecht University, Netherlands)
			10.00 - 10.30	Biofabrication with microgels	Laura de Laporte (RWTH Aachen)
			10.30 - 11.00	Cardiac Tissue Engineering	Joost Sluiter (UMC Utrecht, Netherlands)
			11.00 - 11.30	Building the kidney – from design to function	Anne Metje van Genderen (Utrecht University, Netherlands)
			11.30 - 11.50	Perspectives in the biofabrication industry (10 min each incl discussion)	Jasper van Hoort (BioNX), Matthieu Loste Berdot (Poietis), Eva van Ingen (ICAT), Anke de Leeuw (RegenHU)
			11.50 - 12.30	Lunch (included)	
			12.30 - 14.00	Laboratory tour and 3D bioprinting workshop	
			14.00 - 17.15	Station 1 - Meet the Industry (Extrusion printing; RegenHU)	Anke de Leeuw, RegenHU
				Station 2 - Melt Electrowriting	Georgia van der Linden (UMC Utrecht, Netherlands)
				Station 3 - Volumetric printing	Sammy Florczak (UMC Utrecht, Netherlands)
				Station 4 - LIFT printing	Mathieu Loste Berdot (Poietis)
	Station 5 - Microfluidics and Organ-on-a-chip	Marie Veltman, Carolina Rodrigues (UMCU, Netherlands)			
	Station 6 - Meet the Industry (BioNX)	all industry partners			
	17.15 - 18.00	Work on assignment			
Friday	17-jul	UMC Heidelberglaan 100 HVDB - 2.70/2.71	Key collection	Riccardo Levato (Uni Utrecht, UMC Utrecht, Netherlands)	
			09.00 - 09.30	Learning from Nature: Designing Biomimicry into Bioprinting	Sarah Heilshorn (Stanford University)
			9.30 - 10.30	Student presentations	
			10.30 - 12.00	Announcement of award for best presentation	
			12.00 - 12.15	Wrap-up	
12.15 - 12.45	Class Lunch (included)				
12.45 - 14.00					