

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	Estee Granddier (UMCU, Netherlands)			
			10:40 - 11:15	Basics of Additive Manufacturing	Riccardo Levato (Utrecht University, Netherlands)			
			11:15 - 11:45	3D technology in modern healthcare	Joëll Maaré (UMCU, Netherlands)			
			11:45 - 12:45	Lunch (Included)				
			12:45 - 13:15	AI powered Bioprinting	Hyunho Mo (UMC Utrecht, Netherlands)			
			13:15 - 15:00	Generation of 3D anatomical models using medical data	Arsham Makaryan (Materialise NV, Belgium)			
			15:00 - 15:30	Coffee break				
			15:30 - 16:00	Shape morphing biomaterials for additive manufacturing	Tina Vermonden (Uni Utrecht)			
			16:00 - 16:45	Advanced technologies for bioprinting at organ-scale cell density	Yu Shrike Zhang (Harvard Medical School)			
			16:45 - 17:00	Explaining assignments	Jos Malda / Riccardo Levato			
			17:00	Work on assignment				
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 protheses				
			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			
Workshop 3D Printing		Start workshops, choosing 1 out of 3.	15:45 - 17:45	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			
			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 Gelsinsky (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 Jungst (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	Taming Multi-material Biofabrication to Influence Stem Cell Activity	Lorenzo Moroni (Maastricht Uni)			
			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	Cardiac Tissue Engineering	Joost Sluijter (UMC Utrecht, Netherlands)			
			10:30 - 11:00	Biofabrication with microgels	Laura de Laporte (RWTH Aachen)			
			11:00 - 11:30	Building the kidney – from design to function	Anne Metje van Genderen (Utrecht University, Netherlands)			
			11:30 - 12:00	Perspectives in the biofabrication industry (10 min each incl discussion)	Jasper van Hoorik (BioINX), Mathieu Lose Berdot (Poietis), Maaike Brahm (ICAT), Anke de Leeuw (RegenHU)			
			12:00 - 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) Station 2 - Melt Electrowriting Station 3 - Volumetric printing Station 4 - LIFT printing Station 5 - Microfluidics and Organ-on-a-chip Station 6 - Meet the Industry (BioINX)	Anke de Leeuw, RegenHU Georgia van der Linden (UMC Utrecht, Netherlands) Sammy Florczak (UMC Utrecht, Netherlands) Mathieu Lose Berdot (Poietis) Marie Veltman, Carolina Rodrigues (UMCU, Netherlands) 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 Uni)
						9:30 - 10:30	Student presentations	
10:30 - 12:00	Announcement of award for best presentation							
12:00 - 12:15	Wrap-up							
Presentations Assignments Wrap up			12:15 - 12:45	Class Lunch (Included)				
			12:45 - 14:00					