



University
of Basel

Department of
Biomedical Engineering

Core Facility 3D Print Lab

Turning Ideas into Reality



Personalised titanium-implant, designed using automated modeling within MIRACLE II (Picture: Dr. Reinhard Wendler)



3D Printing in resolutions below 10 μm (Picture: Andreas Roser)



Full-color 3D Printing (Picture: Dr. Michaela Maintz)

Located at the Department of Biomedical Engineering in Allschwil, the University of Basel's 3D Print Lab was established within the Medical Additive Manufacturing Research Group (Swiss MAM). It serves as a competence center for advanced additive manufacturing and provides tailored 3D printing solutions.

Equipped with state-of-the-art technologies, we meet the needs of research, healthcare, engineering, and industry by delivering precision, quality, and innovation.

Our Service Portfolio:

- **Consulting and Design:** Expert guidance on 3D printing technologies, model creation, and custom design solutions.
- **Prototyping and Manufacturing:** Development and refinement of prototypes using advanced materials and technologies.
- **Reverse Engineering:** Digital reproduction and modification of components.
- **Integration of Digital Workflows:** Integration of 3D printing into existing CAD/CAM systems.
- **Post-processing and Quality Assurance:** Production of industrial-grade, high-quality end products.
- **Collaborative Innovation:** Partnerships for research and development projects to enable pioneering work.
- **Knowledge Transfer:** Offering courses and workshops

By leveraging the expertise of the Swiss MAM research group and advanced 3D printing technologies, we apply additive manufacturing to enable groundbreaking research and real-world applications.

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Hegenheimermattweg 167B/C

E-Mail: 3DP-DBE@unibas.ch
Tel: +41 61 207 54 87
www.dbe.unibas.ch

Funding:



Scientific Head:

Prof. Dr. Florian Thieringer
florian.thieringer@usb.ch

Operational Head:

Andreas Roser
Andreas.Roser@unibas.ch

Website

