



Professor Mark Tibbitt

«I believe in working with each student carefully to craft a study plan that matches her/his background and interests while ensuring rigorous competency in core process and mechanical engineering fundamentals.»

Macromolecular Engineering Laboratory

Institute of Process Engineering

Our lab is a highly interdisciplinary research environment that encourages students to apply mechanical and process engineering principles to develop new materials and solutions for a broad range of biomedical challenges as found in drug delivery, regenerative medicine, or biomedical diagnostics.

Focus

- The study of cell-matrix interactions and cell mechanotransduction
- Self-assembled polymer systems
- Design and characterization of soft materials
- 3D bioprinting

Tools and methods

Polymer chemistry and physics, hydrogels, rheology, microengineering, bioengineering, cell culture, drug delivery, tissue engineering

Further details online:
www.macro.ethz.ch

