



**Professor Inge Herrmann**

«If you are passionate about something and immerse yourself into it, anything is possible.»

# Nanoparticle Systems Engineering Laboratory

Institute of Process Engineering

Our lab designs nanotechnology-enabled solutions for health care. We deploy engineering principles to tackle clinical problems, integrating nanoparticle engineering, machine-learning-assisted analytical imaging and preclinical development. Our team unites researchers with diverse backgrounds ranging from theoretical physics to engineering and medicine. By completing our knowledge base with strong clinical partners, we are able to address important societal needs by the new technologies developed in our lab.

## Focus

- Nanotechnology-enabled solutions for health care
- Multiscale analytical imaging (incl. machine learning)
- Personalized health and related technologies

## Tools and methods

- Nanomaterial design and synthesis
- Multiscale analytical imaging
- Preclinical and translational in vitro, ex vivo and in vivo models

Further details online:

[www.nse.ethz.ch](http://www.nse.ethz.ch)

