

The research group of Regina Luttge at TU Eindhoven regularly has places for students interested in neurobiology and (material) Engineering.

Regina Luttge is an Associate Professor in the Microsystems section and Chair of Neuro-Nanoscale Engineering at Eindhoven University of Technology (TU/e). Her research line investigates and develops microsystems for medicine and biology with integrated bio-inspired functionality mediated by shrinking structural dimensions and controlling material properties at the nanoscale applying emerging and established micro-nanofabrication methods. The specific goal is to combine microfluidics with tissue engineering to create a realistic in vitro model of the brain, which can provide insights into both normal and disease-state function. In her previous research (ERC-StG, 2011-2016), she mainly used a soft-lithography approach for the rational design of miniaturized 3D culture experiments and the generation of artificial micro-environments of physiological relevance working with primary neurons. With the results of her ERC-research, Luttge and her team aim to forward-engineer a living brain-on-chip from neuronal stem cells.

More info: <https://www.tue.nl/en/research/researchers/regina-luttge/>
or contact Regina Luttge: R.Luttge@tue.nl