

Graduation opportunities for IPD, DFI and SPD students

Circular and Sustainable Medical Devices

We are happy to offer up to 6 graduation students the opportunity to graduate on the design of circular and sustainable medical devices and consumables.

Medical devices are products used for diagnoses and treatments in the healthcare sector or products that can help prevent or predict diseases or disorders. Examples are surgical instruments, syringes, and software.

Sustainability and circularity have so far hardly been considered in the design of medical devices and consumables. This should change!

The healthcare sector is very wasteful – next to designing more sustainable/circular devices, we need to address sustainability in the wider context, i.e., the workflows and habits of healthcare professionals.



You will work with Johnson & Johnson, Philips, Games for Health (gamesfor.health), Alliance to Zero (alliancetozero.com) or Erasmus Medical Centre.

Assignments range from systemic/strategic, e.g., the greening of Intensive Care Units; to behavioral change approaches, e.g., engaging stakeholders to ensure the return flow of used medical devices; to product design, e.g., the circular (re)design of injection devices and smart wearable sensors.

Start in September 2022.

Interested? Send a short motivation letter and portfolio to JC Diehl (J.C.Diehl@tudelft.nl) or Conny Bakker (C.A.Bakker@tudelft.nl)