



CHALMERS
UNIVERSITY OF TECHNOLOGY



COMPETENCE CENTRE DESIGN FOR CIRCULARITY: Lignocellulose-based Thermoplastics FibRe

Tracks (TRA105) course

Thermoprocessable sustainable bio-based materials

FibRe

VINNOVA

Competence Centre Design for Circularity: Lignocellulose-based Thermoplastics



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Tracks course:

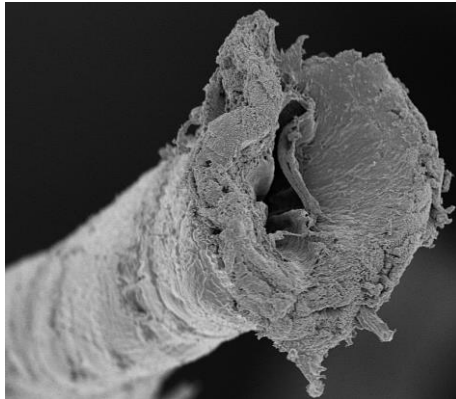
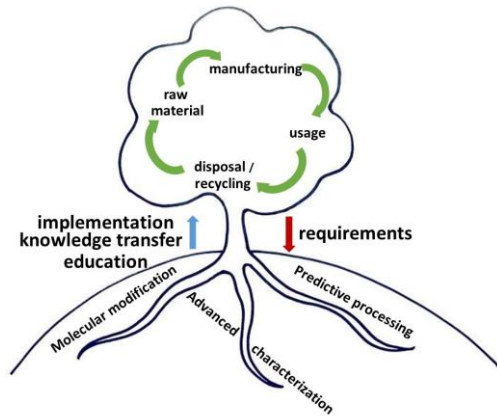
This is a project course on Master level and welcome students and Alumni from:

- [Biotechnology](#)
- [Biomedical Engineering](#)
- [Engineering Mathematics and Computational Science](#)
- [Entrepreneurship and Business Design](#)
- [Industrial Ecology](#)
- [Innovative and Sustainable Chemical Engineering](#)
- [Lärande och ledarskap](#)
- [Management and Economics of Innovation](#)
- [Materials Engineering](#)
- [Materials Chemistry](#)
- [Nanotechnology](#)
- [Product Development](#)
[Production Engineering](#)
[Physics](#)
- [Quality and Operations Management](#)
- [Supply Chain Management](#)

Sustainable thermoforming of bio-based materials

FibRe's Vision

Lignocellulose-based thermoplastics in a fossil-free society



Learning objectives

1. Describe the structure of lignocellulosic materials (forest/agriculture) and advanced characterization tools from melt-processability.
2. Explain the melt processability challenges for (forest/agriculture) biobased materials
3. Reflect on the industrial perspective needed to scale up processing of bio-based materials
4. Advantage of using bio-based materials vs stated societal regulation



FibRe

Questions?

Please contact Prof. Anette Larsson anette.larsson@chalmers.se