

## DECOTEX PROJECT

In this innovative project, we explore new ways to process decoloured textile waste and turn it into high-quality material suitable for new textile applications. By removing dyes and giving old fabrics a fresh start, we open the door to a circular textile economy, one where both coloured and decoloured materials can become valuable new resources.



## TASK DESCRIPTION

As an intern or graduation student, your mission is to develop a recycled yarn made from decoloured textile waste. To make this happen, you'll dive into several key spinning processes, such as carding, drawing and ring spinning. You will learn how to work with these different machines in our Circular Textile Lab and get hand-on experience in fiber analyses and spinning. You will also get familiar with yarn quality control as part of your research to better understand the behaviour of the recycled fibers and define possible areas of applications. You will experiment with different fiber blends to create the best possible recycled yarn. Aspects like fiber length, strength, spinnability, yarn twist and strength are key elements of your research. The ultimate goal: fiber-to-fiber recycling that keeps textiles in the loop. Will you be part of this challenge and make the textile industry more sustainable?

You will work in the Circular Textile Lab of Saxion in close cooperation with other students, material experts and textile engineers within the research group Sustainable & Functional Textiles. It's a hands-on, creative environment where you can really make an impact.

## PRACTICAL INFORMATION

**Student profile:** You are studying in the field of textiles; You can do this assignment either as an internship or graduation research.

**Location:** Epy Drost building Saxion Enschede / SFT labs

**Contact person(s):** Laura Erkens [l.m.erkens@saxion.nl](mailto:l.m.erkens@saxion.nl)

Let us know if you are interested by sending your CV and motivation letter.