

INTERNSHIP/GRADUATION ASSIGNMENT NEW MARKETS FOR RECYCLED YARNS - WOLKAT

Wolkat Fiber B.V. is active in the mechanical recycling of post-consumer textiles that are processed into new yarns and woven fabrics. Wolkat fabrics are currently used in various products such as bags and laptop covers, but also interior fabrics. However, Wolkat wants to take steps regarding the fashion and clothing industry and thus recycle discarded clothing into new clothing in a circular manner. However, this requires research to develop a suitable yarn that meets the quality and appearance requirements for the fashion and clothing industry.



The goal of this project is to develop a fine yarn that is suitable for the fashion and clothing industry using mechanically recycled content. The challenge here is the finer the yarn, the more difficult it is to spin it with recycled fibres, which are also high-quality. The yarn will contain the highest possible percentage of mechanically recycled fibers and, where necessary, will be blended with virgin cellulose fibres.

TASK DESCRIPTION

- You will work at the Circular Textile Lab (CTL) at the Epy Drost building of Saxion. Here you will go through the process of creating a yarn through carding, drawing and spinning. Next you will weave and or knit a fabric, with the recycled yarns and test the quality of the fabric.
- During weekly meetings with your supervisors and peer students, you will discuss your progress and issues. This way the whole CTL team will learn from your findings as well, and we can help each other out when needed.

PRACTICAL INFORMATION

- **Student profile:**
 - This assignment is specifically for Fashion & Textile Technologies students looking for an internship or graduation assignment.
 - We are looking for a student that can work very precisely and independent and who have a strong interest in sustainable textiles and textile processing.
 - As you will be working alongside other students and researchers in the lab we expect you to make a clear planning and have clear communication.
- **Contact person(s) for this assignment:** Maud Kuppen (m.kuppen@saxion.nl)
- **Research group Sustainable and Functional Textiles:** saxion.edu/sft