

INTERNSHIP/THESIS ASSIGNMENT RECAN III DETECTING RECYCLED CONTENT

Sustainability and the circular economy are increasingly important for producers and users of textile products. The Ministry of Defense has an active policy of asking for demonstrable sustainable products in tenders where possible. For textile products, this often means that a minimum percentage (often > 10%) of post-consumer recycled fibers (not originating from PET bottles) is required in the products. This provides advantages for the supplier in the tender. It is therefore tempting to indicate in a tendering procedure that a product offered consists of a certain percentage of post-consumer textiles. This can be demonstrated by a supplier by means of a written certification or a thorough track & trace system.

The Ministry of Defense/ KPU company responsible for purchasing the textile products would like to have an analysis method that can demonstrate that recycled fibers are present in a textile product (post-consumer). Unfortunately, there is no such method yet.

At this point it is for companies easier and cheaper to use virgin material instead of recycled material, in this case it is possible for these companies to cheat with the % of recycled content.

The project Recan III will focus on creating a tool to detect the amount of recycled textile content in a product. To test the tool products will be created in the Circular Textile Lab (CTL) so that the exact content is known.



TASK DESCRIPTION

- With the yarns created in the CTL fabrics will be made using the sample weaving loom at Saxion.
- The work will also include working on optimizing and testing the analytical tool.
- During weekly meetings with you 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 with a strong interest in sustainable textiles and textile processing.
- We are looking for a student that can work very precisely and independent.
- 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.nl/sft](https://www.saxion.nl/sft)