

INTERNSHIP/THESIS CIRCULAR BEDROOM

Are you interested in sustainable textiles and working with a variety of companies?

In the Circular Bedroom project SFT research group works together with Auping, Spinning Jenny, Cure Technology, Textile4Ever, research group Industrial Design and research group TPAC. The goal is to create a circular bedroom by making the bed models of Auping fully circular. The goal of the project is to enhance the use of circular materials and processes across product groups as part of the strategy toward a fully circular product portfolio.



TASK DESCRIPTION

The project has two focus areas that result in two assignments:

Investigate and develop suitable materials for a circular boxspring. Test different material types (polyester, cotton, recycled cotton, SaXcell, and wool) by analysing them and processing them into fibres, yarns, and eventually fabrics. Perform quality analyses at each stage (fibre, yarn, and fabric) and evaluate their suitability for application in the boxspring.

Design a fully biobased boxspring with a long lifespan. Analyse the current design and develop a new concept that allows for easy disassembly, enabling better reuse of materials. Additionally, study biobased dyeing methods for the fabrics, ensuring that the final product remains both sustainable and aesthetically appealing, in line with current trends. The current collection of materials that are used in the different bed models need to be analysed on their possibility for circularity. A selection will be made of the materials with best potential for circularity

- Your work will be done in the textile labs in the Epy Drost building of Saxion.
- During weekly meetings with you supervisor you will discuss your progress and issues.
- Assignment can be done in Dutch or in English

PRACTICAL INFORMATION

- **Internship compensation:** 475 euro per month (40 hour workweek)
- **Student profile:** This assignment is mostly suitable for Fashion & Textile Technologies students with a strong interest in sustainable textiles and textile processing and working with lab machinery.
- 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