



Thesis Magnetic Textile Floor Coverings at



TFI - Institut für Boden- und Raumsysteme an der
RWTH Aachen e.V.

Hands-on research – start your thesis with us!

Your thesis will contribute to our ongoing research project, “MaBo – Development of a Magnetic Two-Layer Flooring System for the Implementation of a Replaceable Wear Layer to Conserve Resources in the Construction Products Sector.” The goal of the project is to develop a modular textile flooring system in which the wear layer and base layer are connected via magnetic functionalization. This is intended to enable easy replacement of the wear layer and improve the reusability and recyclability of floor coverings. Your task will be to experimentally investigate the stability and performance characteristics of the modular flooring system. This includes, for example, conducting and adapting test procedures for dimensional stability, slip resistance, or mechanical stress on textile floor coverings. The developed test methods will be evaluated, analyzed, and compared with existing procedures. We would be happy to work with you to identify a focus area that aligns with your interests.

We offer:

- Independent and responsible tasks
- Practical thesis project involving research, experimental design, hands-on implementation,
- development, and analysis and interpretation of results
- Insights into industry-oriented research and development of textile floor coverings
- Collaboration on sustainable and recyclable material concepts

You have what it takes:

- Degree program: Major in textiles, test development, or a comparable field
- Motivation to tackle analytical and hands-on tasks
- Ability to work in a structured and independent manner
- Enjoyment of solving research problems
- Time to start working on your thesis immediately

If you are interested in innovative research tasks, practical work with textiles and test development, we are looking forward to receive your application at personal@tfi-aachen.de

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