



Bachelor Thesis Textile floor covering made of PA 12 at



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

Are you enthusiastic about innovation? – Then write your bachelor's thesis with us!

With your thesis, you will support our ongoing research project “**Alternative Polyamides with Reduced Global Warming Potential for Textile Floor Coverings with a Monomaterial Surface (ALPA)**.” The aim of the project is to develop a carpet tile that meets the same mechanical performance requirements as established reference products, while featuring a surface layer made of polyamide 12 (PA 12). PA 12 has not yet been used for this application, but offers significant ecological advantages, including a lower Global Warming Potential (GWP), improved recyclability, and increased durability compared to conventional products.

The topic of your thesis can be tailored to your individual interests: if you prefer a data-driven approach, an ecological and economic assessment may be particularly suitable; if you enjoy hands-on work, you will have the opportunity to actively contribute to the development of the new carpet tile.

We offer:

- Collaboration in a research project
- Independent and responsible task
- Direct supervision
- Thesis with practical and industrial relevance
- Insights into industry-related research

You have what it takes:

- Study program: focus on textiles, test development
- Motivation for analytical and practical tasks
- Structured and independent working style
- Enjoy solving research questions
- Time to start your internship from March 2026

If you are interested in innovative research tasks, practical work with textiles sustainability research we are looking forward to receive your application at

 personal@tfi-aachen.de

**TFI - Institut für
Boden- und Raumsysteme
an der RWTH Aachen e.V.**
Charlottenburger Allee 41
52068 Aachen
Deutschland

If you have any questions on the subject, please contact me:
Susann Reuther, M. Eng.
Project leader machine technology
[Email: s.reuther@tfi-aachen.de](mailto:s.reuther@tfi-aachen.de)

