



FibreCoat GmbH – Philipsstr. 8 – 52068 Aachen – Germany
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Bachelor's Thesis Opportunity

Advanced Polymer Coating on Glass Fibres (PolyCoat Technology)

Location: Aachen, Germany

Department: Research & Development

Supervisor: Philipp Picard, Technology Lead – PolyCoat

About the position: FibreCoat is seeking a motivated and hands-on Bachelor's student to support the development and industrialisation of PolyCoat technology, our innovative continuous polymer coating process for glass fibres. This thesis offers a unique opportunity to work at the intersection of process engineering, advanced materials, and industrial scale-up.

Thesis Topic: Investigation of Process Robustness and Quality Consistency in Continuous Polymer Coating of Glass Fibres

Your Tasks

- Plan and execute experimental campaigns on the PolyCoat pilot line.
- Collect and analyse process and quality data to understand process-to-quality relationships.
- Investigate the influence of key process parameters on robustness, stability, and product consistency.
- Define a robust operating window and derive recommendations for future industrial scale-up.

Your Profile:

- Enrolled Bachelor's student in Mechanical, Chemical or Polymer Engineering, Materials Science, or a related field
- Strong interest in manufacturing technologies, process engineering, and materials development
- Hands-on mindset and willingness to work directly on pilot-scale equipment
- Good communication skills in English
- Basic knowledge of polymers, plastics processing, extrusion, or fibre technologies
- Experience with experimental work and data analysis

What We Offer

- Work on a cutting-edge coating technology with real industrial impact
- Access to specialised equipment and pilot-scale process systems
- Close support and integration into an experienced interdisciplinary R&D international team
- A thesis topic with strong relevance for industrial R&D
- A modern and welcoming office space
- Snack bar and team activities

Interested?

Send your CV, short motivation, and preferred start date to:

marcela.munoz-baez@fibrecoat.de

We look forward to shaping the future of composite materials together!