



FibreCoat GmbH – Philipsstr. 8 – 52068 Aachen – Germany
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Master'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 Master's student to support the further development of our innovative polymer-on-glass-fibre coating process for the PolyCoat product line. This thesis offers a unique opportunity to work at the intersection of materials science, process engineering, and composite innovation.

Thesis Topic: Optimization and further development of a novel polymer coating process for continuous glass fibres.

You will contribute to refining our proprietary coating concept, helping translate lab-scale ideas into robust process solutions for next-generation composite materials. Expect a combination of design work, hands-on experimentation, and close collaboration with our R&D team.

Your Tasks

- Develop and refine CAD models for coating and handling components
- Plan and conduct experimental work involving polymer-coated fibres
- Analyse process performance and propose design or parameter improvements
- Document findings and present recommendations to the R&D team

Your Profile:

- Enrolled Master's student in Mechanical Engineering, Materials Science, Chemical Engineering, Plastics/Polymer Engineering or related field
- Experience with CAD modelling (e.g., SolidWorks, Fusion 360, Inventor)
- High motivation for hands-on lab and workshop activities
- Strong interest in composite materials and fibre-based technologies
- Basic knowledge of polymers and polymer processing / extrusion is a big plus
- Experience in materials testing, process optimization, or experimental design is a big plus

What We Offer

- Work on a cutting-edge coating technology with real industrial impact
- Access to specialized equipment and pilot-scale process systems
- Close support and integration into an experienced interdisciplinary R&D international team
- A dynamic startup environment where your ideas make a difference





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- Creative freedom and responsibility in a young and growing company
- A thesis topic with strong relevance for industrial R&D
- Creative freedom and responsibility in a young and growing company
- Opportunities for personal and professional growth in a rapidly expanding market
- Competitive salary
- A modern and welcoming office space
- Snack bar, team activities, and home office opportunities
- 20 vacation days per year

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!

