PTS FIBRE based solutions

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Internship or Thesis (Research Project, Bachelor, Master, Diploma)

Development of flame-retardant coatings for fibre-based substrates

Job Code – PTS-HK0100



Your Profile

- Degree program in Chemistry, Process Engineering and Natural Materials Technology, Materials Science, or a related field
- Initial experience with laboratory work
- Good knowledge of MS Office
- Good command of English
- Independent and precise working style
- Technical understanding and interest in solving complex problems
- Strong communication skills

Your Tasks

Independent scientific work under the supervision of the Functional Surfaces department in a project to develop coatings based on layered double hydroxides (LDH) to achieve flame-retardant properties

- Literature research
- Preparation of sample coatings with and without biobased binders using modern coating machines
- Characterization of surface properties (e.g. surface energy, roughness) and barrier properties (e.g. oxygen barrier)
- Optimization of the coatings (e.g. coating-substrate adhesion, orientation of LDH platelets)
- Analysis of results and well-structured presentation for reporting purposes

Your Perspective

- An exciting and varied role for professional and personal development
- Flexible working hours: full-time or part-time
- Valuable experience and insights into a modern research, development, and service environment
- Opportunity to contribute your own ideas freely
- Collaboration with an open and motivated team
- Reachable from Dresden in 20 min

Contact person

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Please apply via email with your complete application documents (cover letter, CV, and, if applicable, certificates – combined in a single PDF file), stating the job code and your earliest possible starting date.

Work location: Heidenau near Dresden

Starting immediately, part-time or full-time

We welcome applications from all suitable candidates regardless of gender, cultural and social background, age, religion, worldview, disability, or sexual identity.

DRESDEN concept
Exzellenz aus Wissenschaft und Kultur