

Composite and Hybrid Materials

One of the focal points of the research group is advancing sustainable lightweight engineering. Fibre reinforced composites, such as carbon fiber reinforced composites (CFRP) are known for their light weight at high strength, stiffness and corrosion resistance. Research at the iSPC in this area revolves around the optimization of processing conditions, the re-incorporation of material and waste streams (e.g. cut-offs) into new production cycles, the hybridization with metallic counterparts and their design-for-recycling, as well as the development of health-monitoring concepts.

Your tasks:

- Characterisation of raw materials
- Fabrication and characterization of composite panels
- Run parameter studies
- Integration of findings in a holistic circular approach
- Publication of acquired research findings

Your Qualifications:

- Background in the field of mechanical engineering, polymer engineering, composites. Sensor engineering or similar

Supervision and information:

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