

Reference Number: CON-018

## Masterarbeit: Material Trends in the Automotive Industry



Location:

Aachen, Cologne, Munich



Worktime:

### YOUR TASKS

The change in the Automotive Industry towards electrified powertrains and functionalities as well as the endeavor towards higher sustainability also effect the material selection in passenger cars. High-performance plastics, ceramics or fiber-reinforced polymers show benefits over aluminum or steel in some application areas. However, they also have disadvantages in other areas. In this thesis, material trends shall be identified and assessed with regards to their applicability (e.g. use cases, material behavior, production processes, development trends). Final target of the investigations is to develop material roadmaps for different application areas in the vehicle.

### YOUR QUALIFICATION

- Above average academic achievements
- Excellent analytical and communication skills
- High motivation, commitment and engagement
- Professional Excel and PowerPoint skills
- Study of Industrial, Mechanical or Chemical Engineering or a related field of study

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