The Chair for Digital Additive Production DAP at RWTH Aachen University investigates the technical and economic interrelationships of additive production together with renowned partners from industry and science. Starting with component design, through the supply chain, production and component handling to the application characteristics of components manufactured using Additive Manufacturing (AM), all horizontal and vertical AM process chains are examined. Beyond the purely technological topics, we support our partners by means of customized consulting services from strategy development to operational implementation, enabling therefore both profound technological as well as economical perspectives on implementing AM in industry.

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Bachelor-/Masterarbeit
Ingenieurwissenschaften / Physik / Wirtschaftswissenschaften

Implementing Additive Manufacturing: real scenario implementation by means of Corporate Education

Deine Aufgabe
Education has been recognized as one of the main barriers of industrial adoption of AM. For this reason, many companies have invested a lot of time and resources in training their workforce. However, due to the rapid evolution of AM technologies and complexity of the field which mixes several knowledge domains, this continuous education is only sustainable if supported by modern learning approaches. Considering this challenge, your tasks are:

- Create a framework and tool for assessment of the current knowledge of employees in the industrial scenario
- Map and identify new learning technologies to support the adoption of AM (e.g.: Virtual Reality)
- Propose a teaching and learning concept to tackle the singularity of AM knowledge

Du bist

- You are highly motivated and would like to work as part of an interdisciplinary team in an inspiring start-up environment? Then you’ve come to the right place.
- student of industrial engineering, mechanical engineering, business administration & economics, computer science or a related engineering course and is interested in the theme of technology and knowledge transfer
- interested in getting in touch with many industrial partners to experience the challenges of AM implementation in the real world
- Experience in Survey, Interviews, Qualitative and Semi-quantitative methods as well as new education technologies (e.g.: AR and VR, Gamification, Learning Analytics, Learning Factory) are helpful, but not mandatory
- Good knowledge of English. Documentation of the thesis can be done in English or German.