

Henrik

Kruse

Research Associate



AM LEHRSTUHL ...

...I'm responsible for

project management in the Digital Product group

Thematically I deal with

design and simulation in metallic additive manufacturing

The goal of my research is to,

design application-optimized support structures in LPBF

For this I particularly work with

CAX software, various LPBF systems

This is the advantage of my research:

Use of developed designs in lightweight construction, aerospace and automotive industries

However, it is also possible to transfer the results to these industries:

various industries from turbo machinery and medical technology

This is the impact of my research on the future:

Increasing resource efficiency: reducing material, time, and cost of the LPBF process chain

MY MOTIVATION

That's what I studied:

Materials Science, specialization: construction materials and surface technology

For this reason, I decided to go for Additive Manufacturing:

Indispensability of material and material science for technological innovations

I am especially excited about these AM-possibilities:

Exchange with interdisciplinary and multicultural colleagues

I am glad about these opportunities at the DAP Chair:

Collaboration with strategic partners from the extensive network of the chair

In my dissertation I will deal with this topic:

Innovative support structure design in powder bed based laser beam melting

ENTWEDER ... ODER?

Film or series?	Series
Coffee or tea?	Coffee
Sunshine or snow?	Snow
Chocolate or chips?	Chocolate
City or village?	Village
Elevator or stairs?	Stairs