

MARIE-NOEMI

Bold

Group Manager



AT THE CHAIR ...

...I'm responsible for

Managing the Advanced Materials group

Thematically I deal with

Materials development for Additive Manufacturing (AM)

The goal of my research is to,

establish the EHLA process as an alloy development tool.

For this I particularly work with

EHLA systems, especially with the new 3D EHLA system

These industries will then have the following advantage(s):

Industries with high demands on materials (energy, aerospace)

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

Automotive, Medical Technology

This is the impact of my research on the future:

Advanced materials can be used to manufacture high-performance and more sustainable components using AM

MY MOTIVATION

That's what I studied:

Materials Science

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

Because there is a lot of research to be done on new materials in AM, and materials science complements mechanical engineering in this topic.

I am especially excited about these AM-possibilities:

Tailored local properties for functionally integrated components are now possible

I am glad about these opportunities at the DAP Chair:

Collaboration with colleagues from different disciplines

In my dissertation I will deal with this topic:

How are alloy composition, microstructure and hardness affected in the EHLA process?

EITHER ... OR?

Film or series? Series

Coffee or tea? Tea

Sunshine or snow? Snow

Chocolate or chips? Chips

City or village? City

Elevator or stairs? Stairs