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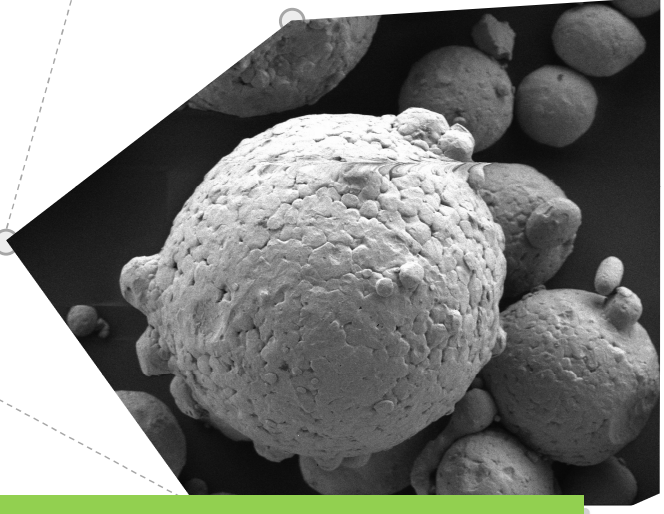

Robert Fleischer, M.Sc.

Bachelor-/Project thesis

CIRCULARITY OF FINEST METALL POWDERS IN ADDITIVE MANUFACTURING

INTRODUCTION

The circularity of materials and thus the reduction in the need for primary raw materials can make a significant contribution to reducing the ecological footprint of our industry. In the process chain of additive processing of metals, powders are produced that no longer serve the actual manufacturing process because they do not correspond to the required particle size distribution.

RESEARCH ACTIVITIES

- Characterization of the available materials with regard to particle size distributions and morphologies
- Systematization of the requirements for powder materials from different manufacturing processes
- Studies on the processability of the materials in selected manufacturing processes Characterization of manufactured samples and classification into process- or material-typical standards

REQUIREMENTS

- Mechanical Engineering / Industrial Engineering - Mechanical Engineering / Chemical Engineering

LWK
Lehrstuhl
für Werkstoffkunde

If interested contact:

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