

MPD_3

Title of the doctoral program

Management, Production and Design

Title of the research activity

Sustainability assessment of production processes: 3D printing vs. traditional manufacturing

Short description of the research activity

The research aims at defining suitable sustainability paradigms for production processes, from the economic, environmental, social and sanitary points of view, to be applied in order to compare suitable production cycle for industrial products.

Benchmark parts with identical specifications will be selected, and the developed sustainability models and paradigms applied to different viable production cycles. The approach will enable the manufacturers to make sound decisions over the manufacturing technologies to select for a given application.

Scientific responsible (name, surname, role, email)

Luca Settineri, Full Professor of Manufacturing, luca.settineri@polito.it

Number of vacancies for XXXI cycle (3 years program)

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Specific requirements (experiences, skills)

Master degree in Mechanical or Industrial or Material Engineering. Use of the common OFFICE software. Curiosity and interest towards manufacturing technologies and systems.

Website of the research group (if any)