

(01/01/2020)

Diagnostic

Workspace 08/2020

Guidelines 12/2020

materials

2021-2023

02/2020





Global recognition 2023-2025

together the EU industrial and academic communities in novel educational schemes ,,





Arts Institute of et Métiers

SUPSI

MAIN PRODUCT

M-NEST I



**AIM:** Provide a wide range of training

activities focused on the most advanced

processing and production technologies



## **LEARNING MODULES** Multimaterial Processing

- Adhesive Joining
- Metal Forging
- Virtual Reality/Augmented Reality
- Reconfigurable & Flexible Manufacturing Automation
- IT & Industrial Communication Systems
- Industrial Engineering & Smart Factory

## **MAIN RESULTS**

A total of three teaching factories and seven learning factories have been established and are under implementation in the four Factory Units.

"This project M-NEST I has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement EIT/EIT Manufacturing/SGA 2020/1"

## **PROOF-OF-CONCEPT**

Preliminary results so far indicate consistent proximity between industrial needs and academic environment, with engagement of four companies that have challenged students to work on real industrial case studies.

In sum, the overall objective of M-NEST-I is to provide a proof-of-concept, leveraged by digital technologies, of an emerging teaching paradigm to connect industry to research and development institutions/universities to empower the European manufacturing community.

## MANUFACTURING TECHNOLOGIES FOR MATERIALS AND PROCESSES **HYBRIDIZATION**

M-NEST-I is putting forward a distributed teaching and learning factories building on complementary knowledge and competence assets from four Factory Unities based in Portugal, France, Finland and Switzerland.

These four Factory Units are built upon key complementary AVM technologies:

- Multimaterial / Metal / Composites Processing;
- □ Manufacturing Simulation & Virtual/ Augmented Reality;
- Reconfigurable & Flexible Manufacturing Automation;
- □ Industrial Engineering & Smart Factory.



EIT Manufacturing is supported by the El