

Materials and Surfaces Engineering

Within the LaBoMaP main thematics, the MSE team (Materials and Surfaces Engineering) aims to control the surface and the volume of materials.

The activities can be defined by the 2 following topics:

- Topic 1: Low pressure surface treatments



[Topic 1.1: adding a new surface by Physical Vapor Deposition](#)



[Topic 1.2: changing the surface by Thermo-Chemical diffusion](#)

- Topic 2: Controlled microstructure materials

This axis mainly focused on the elaboration of controlled microstructure material by classical process such as forging or casting... This concerns a better forecast and understanding of metallurgy in different ways:

[Topic 2.1: manufacturing processes and controlled properties materials](#)

[Topic 2.2: predicting the residual stress generated by the elaboration process](#)