

Master's degree in mechanics and materials for sustainable engineering

The mobility of people and objects consumes a large quantity of natural resources, in terms of both materials and energy. The design, manufacture, mechanical performance, maintenance and recycling of products must now integrate environmental concerns.

Mise en avant

This master offers students multidisciplinary training in the field of mechanical engineering, including in particular:

- mechanical design, integrating the choice of materials according to their impact on the environment
- general knowledge on bio-based materials
- development and elaboration of new biopolymers and biocomposites intended for 3D printing
- management of the life cycle of a part, a product or a structure, including the planning and optimization of maintenance.

Take advantage of specialized training, design and print your own biocomposites in the FabLab, and test the parts in the materials testing lab! And if you need any help, for your study program or in your everyday life, just ask your SIGMA buddy!

UCA UNIVERSITÉ
Clermont Auvergne

L'essentiel

Nature de la formation

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Durée de la formation

- 2 years

Lieu(x) de la formation

- Aubière

Admission

Pré-requis

Formation(s) requise(s)

- Applicants should hold a valid Bachelor's degree in Mechanical Engineering.
- The selection process will be based on the examination of the application file (cv, transcript of the BEng, English language certification). The candidate may be invited to an interview.

Et après ?

Niveau de sortie

Année post-bac de sortie

- Bac +5

Niveau de sortie

- Level 7: Master's degree