

THE PARTNERS



A FabLab (FABrication LABoratory) is an open prototyping platform enabling access to digital fabrication tools (e.g. 3D printers, CNC milling machines, laser cutters, etc.) and offering technical assistance to facilitate invention and stimulate people's creativity.

In 2013, the 1st FabLab of the country (LU) was launched within the Technoport of Belval (business incubator & coworking) and more recently (June 2016), a XL extension of the laboratory was officially inaugurated at 1535° Creative Hub, in Differdange.



The Luxembourg EcoInnovation Cluster, managed by Luxinnovation, is an active network that brings together and supports the various players of the Clean Technologies sector in Luxembourg. Dedicated to promoting the concept of a Circular Economy in Luxembourg, the Cluster strives to create and develop new and sustainable business opportunities through collaborative R&D and innovation projects.

Through the UpAM Project, the Cluster seeks to raise public awareness of the benefits and principles of the circular economy (eco-design, re-use, upcycling, ...)



Find more information online at:

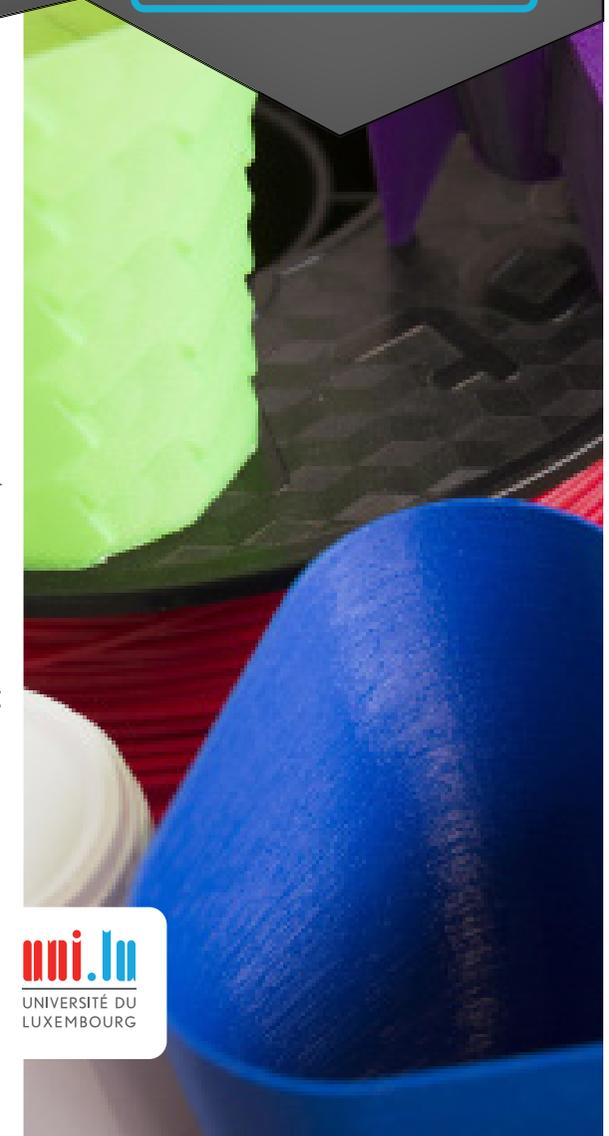
upam.uni.lu



Scan the QR code and learn more about the upAM project



FACULTY OF SCIENCE, TECHNOLOGY AND COMMUNICATION

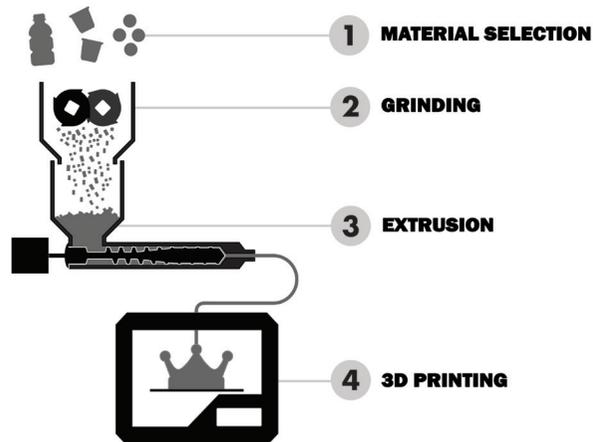


THE PROJECT

Contrary to the linear economy “extract, produce, consume, discard” which tends to reach its limits due to resource constraints, the circular economy “reuse, repair, recycle” focuses on reusing materials and creating added value.

The project “upAM” (up-cycling Additive Manufacturing) led by the University of Luxembourg in partnership with FabLab and Luxinnovation aims to promote the circular economy.

It consists in an interactive installation which transforms a disposable polymer product to a recycled product with higher added value or functional purpose. This is more than recycling, this is upcycling!



The project is supported by the Luxembourg National Research Fund (FNR).

STUDY MECHANICAL ENGINEERING AT THE UNIVERSITY OF LUXEMBOURG

Why study mechanical engineering?

A career in mechanical engineering involves a huge variety of skills and activities that deal with the design and development of mechanical devices, processes and products.

Passionate about modern technologies, during their studies mechanical engineers develop multi competence and knowledge in the fields of design, computer aided engineering software, mechanical construction, manufacturing technology, numeracy, planning and management.

As a consequence, students with mechanical engineering skills are highly sought after industries such as aerospace, automotive, manufacturing, energy, etc, but also in IT, finance and management.

Why study at the University of Luxembourg?

The University of Luxembourg offers you an inspiring, multilingual and personalised learning environment in which to study mechanical engineering:

- Individual mentoring and courses taught in small groups
- Project-based work at early stage using additive manufacturing technologies
- Collaboration with companies and administrations
- Internationally renowned professors
- The possibility to spend a semester abroad with partner universities
- Strong links with the Research Unit in Engineering Sciences (RUES)

What is the current programme offering?

- Bachelor en Ingénierie
- Bachelor en Sciences et Ingénierie
- Master of Science in Engineering - Sustainable Product Creation

Student Testimonials

Diogo Lança, 15/9/2016

My experience with the University of Luxembourg and with the Master in Sustainable Product Creation was really enriching in both from a professional and personal aspect.

The degree spans a wide variety of subjects, from science and engineering to management and writing skills. Students have access to a wide variety of tools and machines as well as many professors with very distinct backgrounds.

Cédric Malek, 20/9/2016

As part of my bachelor's thesis in mechanical engineering at the University of Luxembourg, I was looking for a project that could provide both theoretical and practical challenges.

Since the importance of 3D printing will increase significantly in the near future, I decided to make my thesis on the design, development and installation of a high-precision 3D printer for large components.

During the project realization I had a number of technical challenges to overcome, but the end result is the visible expression of the successful project.

Contact for more information:



claudio.wolf@uni.lu
www.uni.lu