

SCIENCES, TECHNOLOGIES, SANTÉ, INGÉNIERIE

# Master's Degree in Engineering Grenoble INP - Phelma, Advanced materials for innovation and sustainability (AMIS)



Niveau d'étude  
visé  
Bac +5



Durée  
2 ans



Composante  
Grenoble  
INP - Phelma  
(Physique,  
électronique  
et matériaux),  
UGA



Langue(s)  
d'enseignement  
Anglais

## Présentation

AMIS, the Master's Program in Advanced Materials for Innovation and Sustainability tackles the following themes - all of which are central themes of the EIT Raw Materials:

- Substitution of critical or toxic materials in products and for optimized performance
- Material chain optimization for end-of-life products
- Product and services design for the circular economy

The primary focus of the adaptation is on metal and mineral raw materials. Bio-base and polymer materials are covered in view of their substitution potential and other materials in the context of multi-material product recycling.

In addition, the AMIS Program includes a solid package of courses and project work in innovation and entrepreneurship.

Students' mobility is an integrated part of the two-year program, during which they will study at two of the consortium partner universities. Upon completion of the program, students will receive a double degree.

## Objectives

To gain transferable skills such as entrepreneurship, negotiation techniques, intellectual property, problem solving,

working cooperatively and creatively, co-design and life cycle approaches which will enable students to consolidate a professional career.

To become an expert in the field of raw materials, particularly in sustainable functional materials and alongside get a holistic view on value and process chain.

To take part in a mobility program and take advantage of the complementary skills of the universities in the network.

To become a change agent with an entrepreneurship mindset able to safeguard the sustainability of EIT Raw Materials throughout the industrial and research landscape.

To enter a PhD program in Europe or elsewhere, for instance at one of the network laboratories.

## Training in collaboration with

### Academic partners


- Aalto University School of Science
- Technische Universität Darmstadt, Germany
- Université de Bordeaux, France
- Université de Liège, Belgium

### Associated companies

- ArcelorMittal
- ARKEMA

**Research and Technology organizations**

- CEA
- Fraunhofer?Gesellschaft
- IMEC

>  All the information on this  
Master's Program on the Grenoble  
INP web site

## Infos pratiques

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### Lieu(x) ville

 Grenoble