

# European Master



## Strategic Partnerships



## Other EU Projects

**AISS**

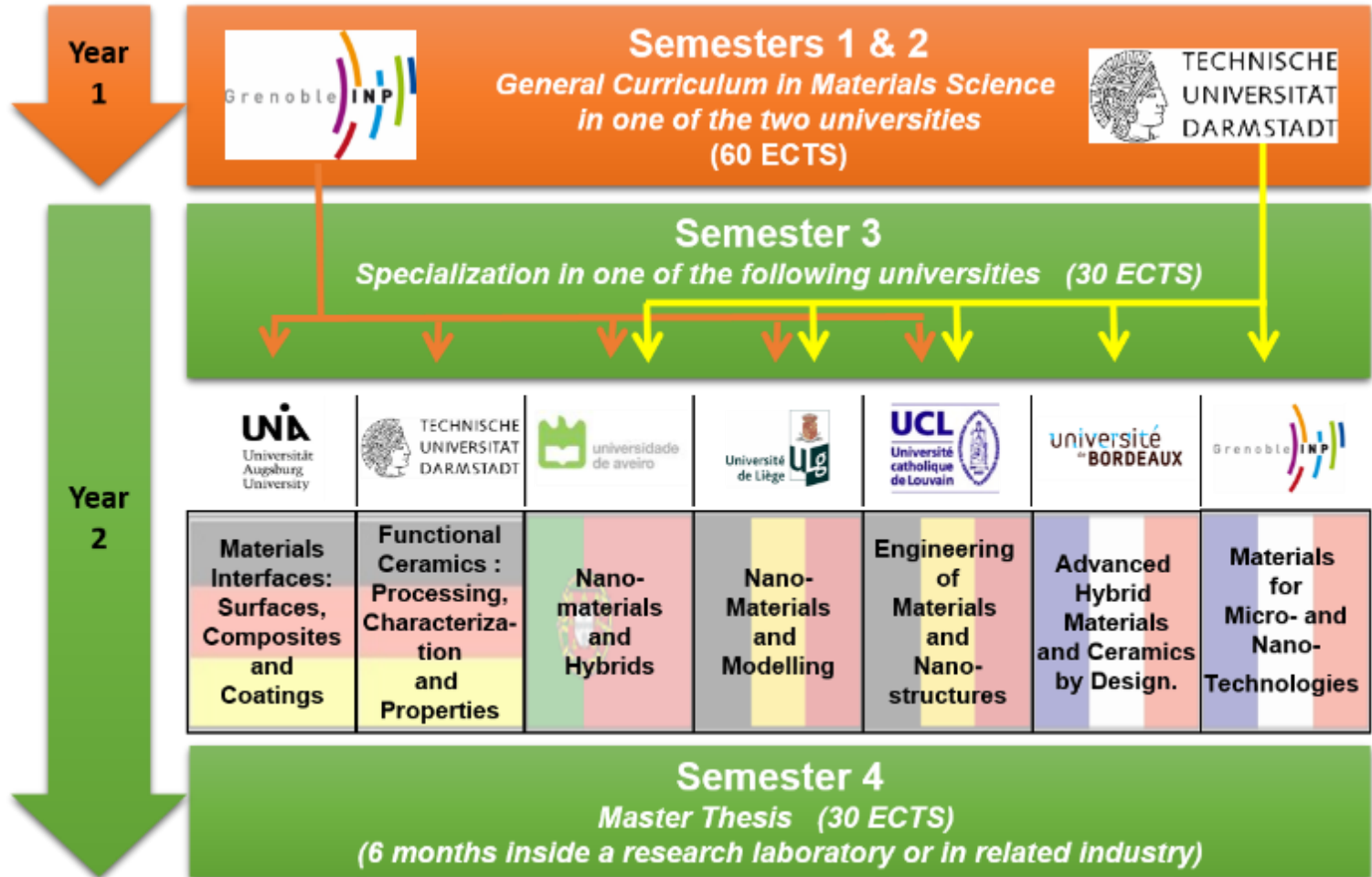
**IDS FunMat**

**DFH**

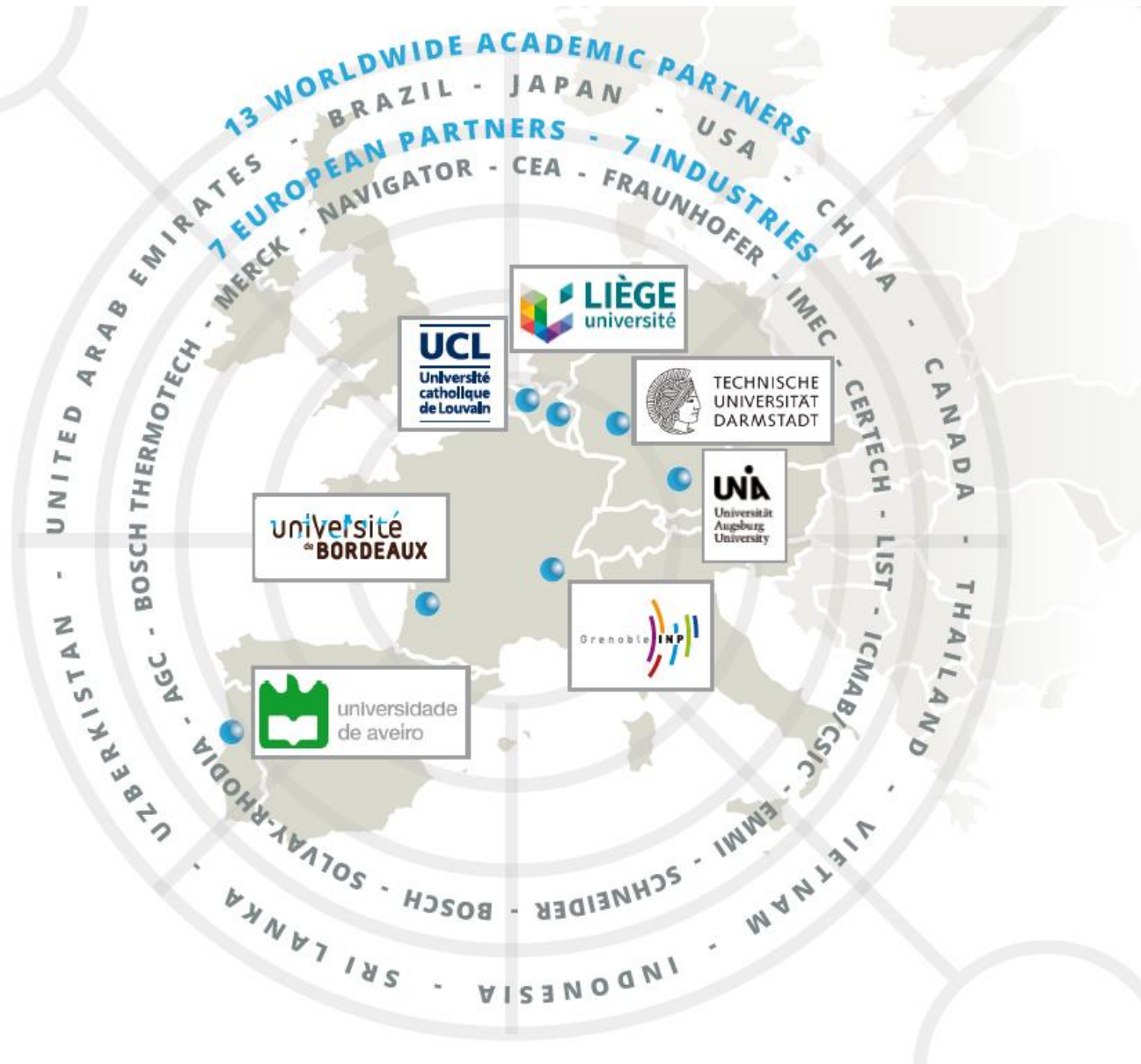


### Qualification:

- a) Bachelor of Science
- b) Pre-degree and all exams up to semester 6



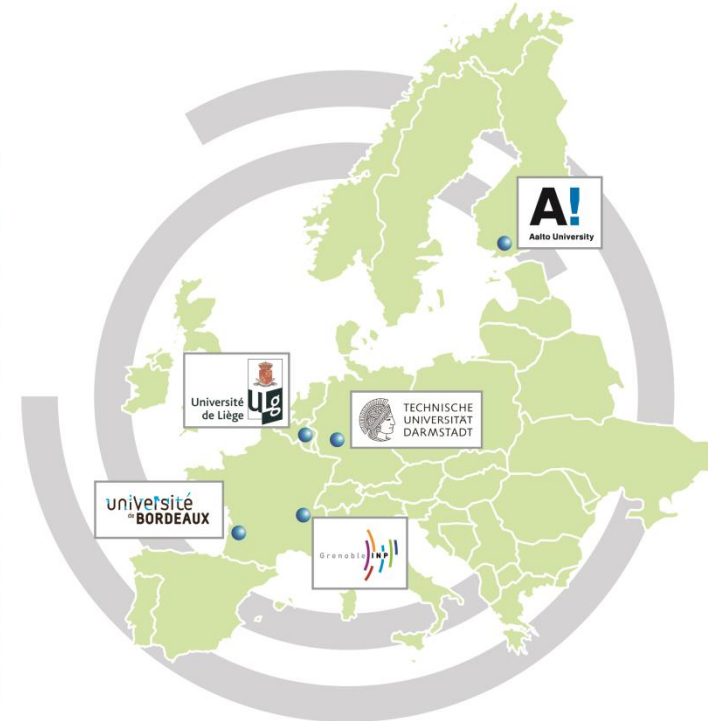
- Outcome:**
- 1. Master of Science (from TU Darmstadt)
  - 2. Master of Science (from Partner University)
  - 3. International FAME MASTER Certificate



- **FAME MASTER** students have to apply until **January 15<sup>th</sup>** for CAT A and B or until **April 15<sup>th</sup>** on own finance (or Erasmus)
- **FAME+ Grant from Erasmus Mundus for non EU students**  
**49,000.-** Euro for 2 years, minus 9,000.- Euro tuition fee per year
- **FAME+ Grant from Erasmus Mundus for EU students**  
**35,000.-** Euro for 2 years, minus 4,000.- Euro tuition fee per year  
(visit of 2 new countries is mandatory)
- **Grant from Erasmus for EU students**  
150-300 Euro/Month from Erasmus + tuition fees paid partial by MaWi  
(1. year in Grenoble and 2. year in Darmstadt is possible)







**Grenoble Institut Polytechnique (GINP)**, France  
**Technische Universität Darmstadt**, Germany  
**Aalto University**, Finland  
**University of Bordeaux**, France  
**University of Liege**, Belgium

Acquire an understanding of the full raw materials value chain, and a mindset for innovation & entrepreneurship focusing on sustainability.

## Industrial partners

- ARKEMA
- ArcelorMittal
- Fraunhofer-Gesellschaft
- Commissariat à l'Energie Atomique et aux Energies Renouvelables (CEA)
- IMEC

<https://amis-master.eitrawmaterials.eu/>



# Advanced Materials for Innovation and Sustainability

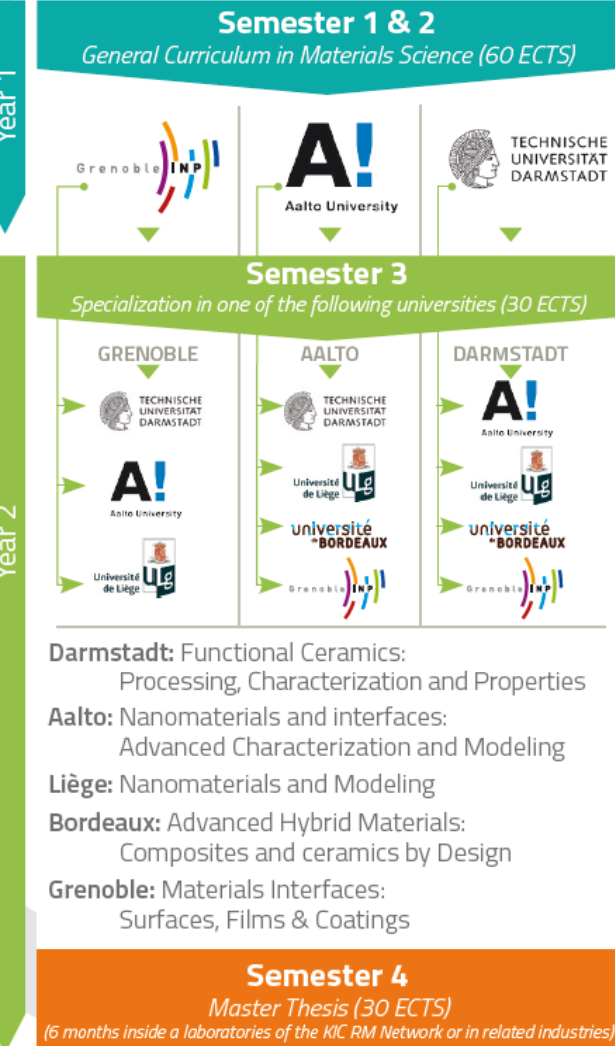
4.500 € Travel and housing  
9.000 € AVSA Grant  
Added value student activities grant



DEPTH OF KNOWLEDGE

Year 1

Year 2



BREADTH OF KNOWLEDGE

sustainability

business

## EIT Overarching Learning Outcomes (OLOs) 30ECTS

Highly integrated, innovative

- Inno-Project I and II
- Joint summer camp
- Inno-Mission Internship
- E-learning

Breakthrough  
Innovation

Robust entrepreneurship education

- Management
- Entrepreneurship
- Integrated courses
- Market analysis





AMIR master

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Career

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Alumni

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RawMaterials

Connecting matters



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

"Ingeniería el futuro"

université  
de BORDEAUX



# Advanced Materials Innovative Recycling

## International master program

Program

Network

Admission



AMIR master

université  
de BORDEAUX



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT



POLITÉCNICA  
"Ingenieramos el futuro"

LIÈGE  
université



MISKOLC  
EGYETEM  
UNIVERSITY OF MISKOLC

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S3

Advanced research lab with seminar (15 ECTS)

Functional Materials  
(6 ECTS)

Surfaces and  
interfaces (5 ECTS)

Option I  
Energy materials  
(4 ECTS)

Option II  
(4 ECTS)

Option III  
Magnetic  
materials (4 ECTS)

S4

Internship in industry or RTO  
(15 ECTS)

Master thesis  
(15 ECTS)



The AMIR Master program focuses on the **raw material value chain**, with particular emphasis on **recycling**.

Academic and industry leaders have built a strong multidisciplinary program to educate future international professionals who will develop new routes for materials recycling.

### Industry Partners



### Partner Universities

University of Bordeaux, France

Technical University Darmstadt, Germany

University of Liège, Belgium

Universidad Politécnica de Madrid, Spain

University of Miskolc, Hungary

## Interview / Matchmaking

### Start-ups and industrial partners

Ecomegot  
Veolia  
REdLED

Carbon Water  
CSIC  
Fraunhofer

Circouleur  
CEA  
Consortium KIC Raw Materials

Bigarren Bizi Sas  
Arcelor mittal

Round Table session and **presentation of the companies** followed by a discussion where the audience can ask questions.

Opportunity for companies to **meet the students in person and interview them for a prospective job or internship.**

The **matchmaking** between companies and students considers the individual interests on both sides based on job descriptions and the student's CVs.

**Each student has at least two interviews.**



# EUropean CERamic MATerials

The aim of the European Ceramic Materials (EUCERMAT) project is to significantly contribute to changing the general opinion about ceramics materials in Europe :

- new modern ways of teaching ceramic science and technology in the European universities,
- strongly correlated research projects between universities and industries,
- innovative ways of communication towards the general public and the high schools.

Those actions leading to the creation of a new methodology based on a relevant functioning of the **knowledge triangle** in the domain of ceramic material.

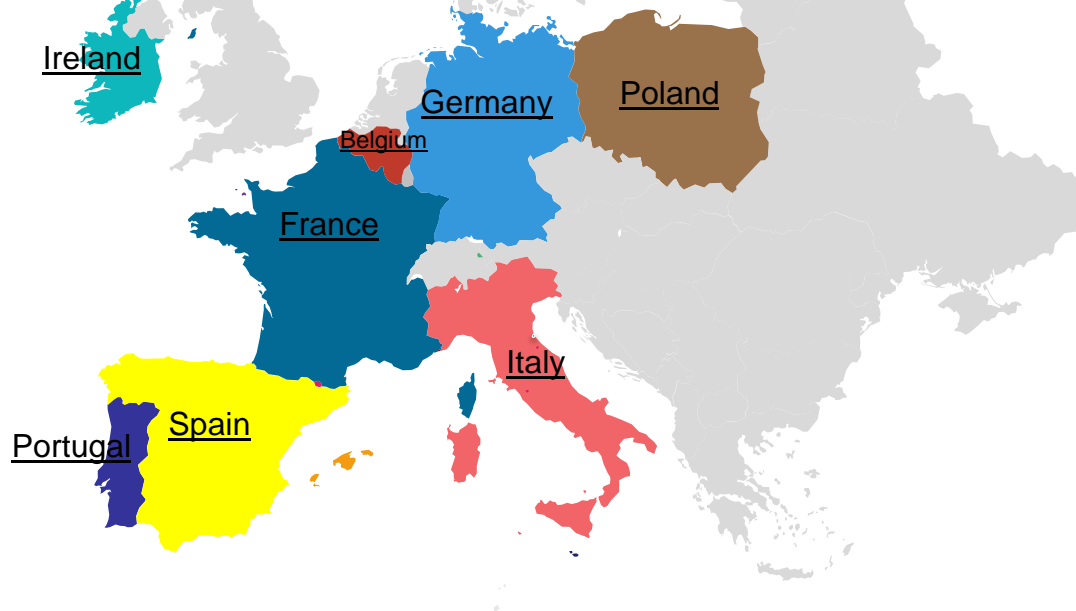


5 Universities  
2 Research Institutes  
4 Companies  
1 Federation of National  
ceramic societies  
1 High-school



# EUCERMAT

- 5 Universities
- 2 Research Institutes
- 4 Companies
- 1 Federation of national ceramic societies
- 1 High-school



## **FRANCE**

Université de Limoges – Coordinator  
SAFRAN – International High-technology group

## **PORTUGAL**

Universidade de Aveiro  
Agrupamento de Escolas José Estevão  
Porcelanas da Costa Verde SA

## **GERMANY**

Technische Universität Darmstadt

## **IRELAND**

University of Limerick

## **POLAND**

AGH - Akademia Gorniczo-Hutnicza im.  
Stanislawa Staszica w Krakowie

## **ITALY**

ISTEC - Consiglio Nazionale Delle Ricerche  
SYSTEM SPA – Ceramics decoration and  
automation

## **SPAIN**

ICV - Agencia Estatal Consejo Superior de  
Investigaciones Cientificas  
Refractory Solutions INSERTEC SL

## **BELGIUM**

European Ceramic Society – ECerS

# EUCERMAT

## EUropean CERamic MATerials

### European Modules with blended Mobility and Internships offered by EUCERMAT

EUCERMAT is a transnational collaborative project, cofounded by the European Commission, aimed at sharing, developing and transferring innovative practices and producing a strong synergy among the leading European universities and ceramic industries.

The project develops **innovative learning methods** to educate students into the field of **innovative ceramic materials and ceramic technology** and produce qualified researchers able to drive the industrial innovation in this field.

The project offers **high-level international training courses** in the field of the science of ceramic materials and processing.

Five European universities and around ten industries are involved, covering most of the ceramic industrial applications.

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#### BELGIUM

European Ceramic Society – ECerS



**IN**ternships for enhancing **SO**cial and Civic Key Competences  
for Lifelong Learning in Technical Universities



Co-funded by the  
Erasmus+ Programme  
of the European Union

## The engagement of universities on social responsibility

### The TU Darmstadt is involved in the Erasmus+ project to promote social and civic competences among students through professional internships.

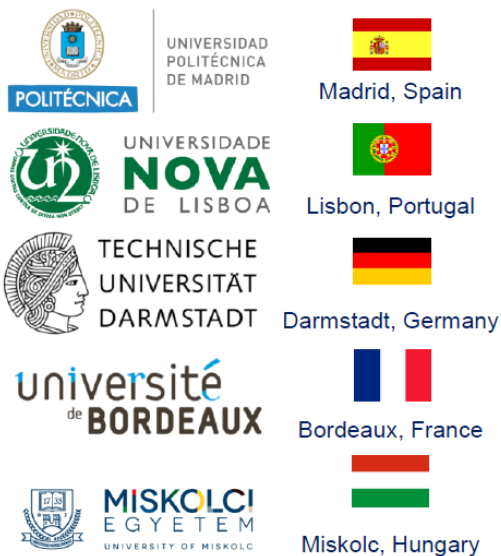
Increase the involvement of technical universities in the social responsibility of companies and organizations. This is the goal of the European project IN4SOC which targets students approaching the labour market for the first time through professional internships. Partners of the project are Universidad Politécnica de Madrid (Spain), University of Bordeaux (France), University of Miskolc (Hungary), New University of Lisbon (Portugal) and TU Darmstadt. The collaboration between these universities aims to promote the inclusion of social and civic responsibilities, fundamental in the curriculum of technical universities in Europe.

The IN4SOC project - Internships for enhancing SOcial and Civic Key Competences for Lifelong Learning in Technical Universities was approved by the European Union in the call for proposals of the Erasmus+ 2018 programme as part of the Strategic Partnership for higher education.

The project started last September and it will have a total duration of three years. The expected results include guidelines to formulate replicable socio-civic internships, guides for ensuring the success of these internships, as well as tools to be used by students and organizations. The project also aims to establish the basis for a future network of universities offering these internships, which will enlarge the cooperation between academia and the rest of society. In this respect, the researchers emphasize that effective collaboration with industry is part of universities' commitment to the Sustainable Development Goals (SDGs).



## Partner Universities



## Associated Partners



Are you a **student in a technical programme** interested in developing your social and civic competences throughout your internship experience?

Is your **technical university** interested in enhancing its internship offers with an empowering social and civic approach?

Is your **organization** interested in offering more engaging internships by hosting interns committed to develop their social and civic competences?

Join the IN4SOC network!

**Make your internships grow!**

For more information visit:

<https://blogs.upm.es/in4soc>

Write to us at:

[in4soc@upm.es](mailto:in4soc@upm.es)

Follow us on:



<https://twitter.com/IN4SOC>

<https://www.facebook.com/IN4SOC>



Co-funded by the  
Erasmus+ Programme  
of the European Union

Project Reference Number:

**2018-1-ES01-KA203-050697**

**IN4SOC**  
Internships for enhancing Social and Civic Key Competences  
for Lifelong Learning in Technical Universities

**SUSTAINABLE  
DEVELOPMENT  
GOALS**

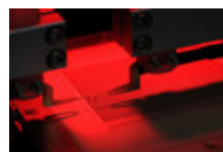
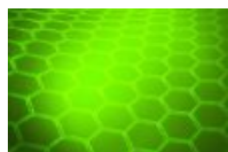
**4** QUALITY  
EDUCATION

**13** CLIMATE  
ACTION



The IN4SOC project is mainly committed to the SDGs 4 & 13.

## Welcome to EMMI, the European Multifunctional Materials Institute



EMMI is a European network in materials research, including academic and industry partners.

EMMI's main objective is the creation of collaborative projects in Materials Research and Education. The projects typically make use of complementary know-how among the partners. Multi-disciplinary cooperation between engineers, chemists, physicists, biologists, etc. is particularly fruitful. You can find examples of projects under the menu item Research > Projects above.

Our members also offer their know-how and equipment for synthesis, characterisation and modelling of materials as services to external partners. See the menu Database and Search Tools for details.

We will be pleased to discuss with you any requests and problems in materials science, collaborations or services. Please use the menu Contact to get in touch.

## NEWS AND EVENTS

### FAME-EMMI Anniversary Meeting 2019

Bordeaux, 21-22 March 2019, coupled with final meeting of doctoral schools.

🍀 UPDATE II: video, report and photos

### PhD fellowships available: Project DOC-FAM

coordinated by ICMA B  
Barcelona

### Three EMMI members launch a PhD Cluster on Computer Modelling

3 PhDs in co-tutelle working on first- and second-principles materials modelling

# European Master



## Strategic Partnerships



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