

Summer school

A 2 weeks summer school is organized for all Mamaself students in the beginning of the second year at the University of Montpellier. Objective of the summer school is to obtain a wide background in exploring materials using neutron, synchrotron and free electron laser radiation.

Status Meeting Mamaself

The Mamaself status meeting is organized in Switzerland during the 4th semester and brings together all second-year Mamaself students and representatives of Partner Institutions. During the status meeting the students will present the preliminary results of their Master-thesis work. Additionally, scientific topics will be presented by specialists from research centres.

Choose Academic Excellence

Join Erasmus Mundus, a Label of excellence. This is the guarantee of a high level program and diploma, and transferable qualification.

Choose an international Master

Study with students from all around the world, have several mobilities, improve your language skills...

Choose Science

Work at highly recognized institutions

and research groups. Learn more about Large Scale Facilities, Investigate the intimate nature of materials.

Choose unforgettable events

Welcome week, 2 weeks Summerschool, Status meeting, moments that you will never forget !

Choose Culture

Discover different cities, countries, cultures, education ways ... and have a rich experience.

Master in Materials Science Exploring Large Scale Facilities

www.mamaself.eu

Partner institutions

The Master thesis during the 4th semester can be conducted partially/entirely at associated partners outside Europe or at Large Scale Facilities. Third country partners institutions are situated in **Switzerland** (PSI, Zurich), **Japan** (Kyoto University, Tokyo Institute of Technology), **India** (IIT Madras), **USA** (University of Connecticut, Cornell University), **Russia** (Southern Federal University), **Brazil** (University of Sao Paulo)



Supporting Large Scale Facilities

Several Large Scale Facility partners strongly support the summer school and the Master thesis : **ILL** or **ESRF** (Grenoble, F), **LLB** (CEA-Saclay, F), **Synchrotron Soleil** (Saclay, F), **FRM-II** (Munich, D), **DESY** (Hamburg, D), **XFEL** (Hamburg, D), **PSI** (Villigen, CH), **Elettra** (Trieste, I), **Alba** (Barcelona, E)



The Consortium

With the Erasmus Mundus Mamaself program, students will be awarded 2 Master diplomas from high level European universities :

<p>University of Rennes 1, France Pr P. Rabiller, coordinator philippe.rabiller@univ-rennes1.fr www.univ-rennes1.fr</p>	<p>Technical University of Munich Pr W. Petry winfried.petry@tum.de www.tum.de</p>
<p>University of Montpellier, France Pr W. Paulus werner.paulus@umontpellier.fr www.umontpellier.fr</p>	<p>Ludwig Maximilians University of Munich Pr W. Schmahl Wolfgang.W.Schmahl@lrz.uni-muenchen.de www.lmu.de</p>
<p>Adam Mickiewicz University Pr J. Kubicki jacek.kubicki@amu.edu.pl www.amu.edu.pl</p>	<p>University of Torino, Italy Pr S. Bordiga silvia.bordiga@unito.it www.unito.it</p>

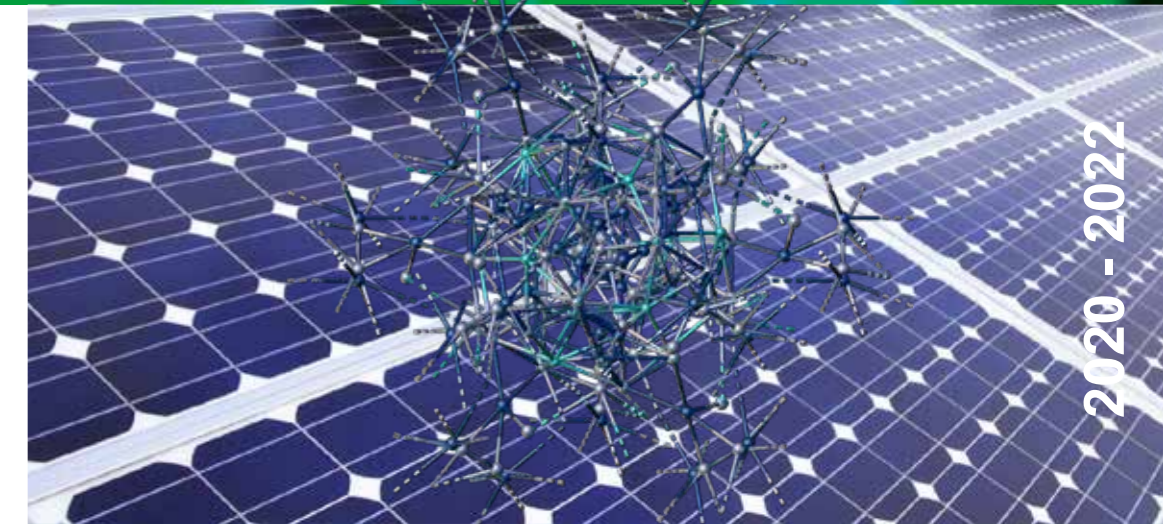
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For all details please refer to the Mamaself website :

www.mamaself.eu

For application : <http://application.mamaself.eu>



2020 - 2022

A two year Master's course
in the Erasmus Mundus framework



FRANCE
GERMANY
ITALY
POLAND



Mamaself Master Course

Strategic development of industrialized countries, including Energy considerations, requires the design of new materials with increasing complexity and performance specifications. Designing, processing and controlling such smart materials is a multidisciplinary field that requires highly qualified experts, capable of understanding, characterizing, processing and engineering these materials.

The Mamaself main objective is to form skilled scientists in Materials science with training to the most advanced experimental techniques for the characterization of high-tech materials. During the Master, students will benefit and be part of the intense international collaboration among High level Universities, Large Scale Facilities and Industry in the framework of the Mamaself program.

The two-year MaMaSELF Master's Course covers 120 ECTS credit points. Successful candidates obtain a double or multiple diploma.

Mobility

The two year Mamaself programme is split in 4 semesters : The first year (SEM 1 & SEM 2) is entirely enrolled at one out of the five universities of the consortium, SEM 3 at a different university. SEM 4 is dedicated to the Master thesis and can be carried out at any university or Large scale facility or at partner institutions situated in Switzerland, Japan, India, USA, Brazil and Russia.

(For details refer to our website www.mamaself.eu)

Language policy

Instruction language is English for lectures and any other communication. We offer level-adapted language courses of about 40 hours in French, German, Italian and Polish language at the respective consortium site.

Erasmus Mundus

The Master Mamaself course has been built in the framework of the Erasmus Mundus European program of excellence. The European Erasmus Mundus program stands for the promotion of the European Union as a centre of excellence in the field of higher education. It strongly supports high quality Master courses to enhance visibility and attractiveness of European higher education all around the world.

Master Mamaself benefits from the support of EACEA and of the Erasmus Mundus label of excellence since 2007.

Erasmus Mundus Masters catalogue

https://eacea.ec.europa.eu/erasmusplus/library/scholarships-catalogue_en

EACEA Erasmus+

https://eacea.ec.europa.eu/erasmusplus/funding/key-action1-erasmus-mundus-jointmaster-degrees-2019_en



Principal teaching programmes

RENNES

Materials science

Physics and chemistry of solid state, NMR, crystallography, x-ray physics, simulation and modeling, metal & alloys, semiconductors, surface-science, magneto-electronics, sensors, ceramics and glasses, photonics.

MUNICH

TUM Engineering physics

Bio-materials, polymers, theoretical physics, nuclear physics, neutron physics, reactor physics

LMU Geomaterials & Geochemistry

Interfaces, mineralogy, bio-minerals, crystallography, spectroscopy, petrology

TURIN

Chemistry and nano-materials

Catalysis, metallurgy, surface science, biomaterials, polymers, quantum chemistry, ceramics, superconductivity

MONTPELLIER

Materials science

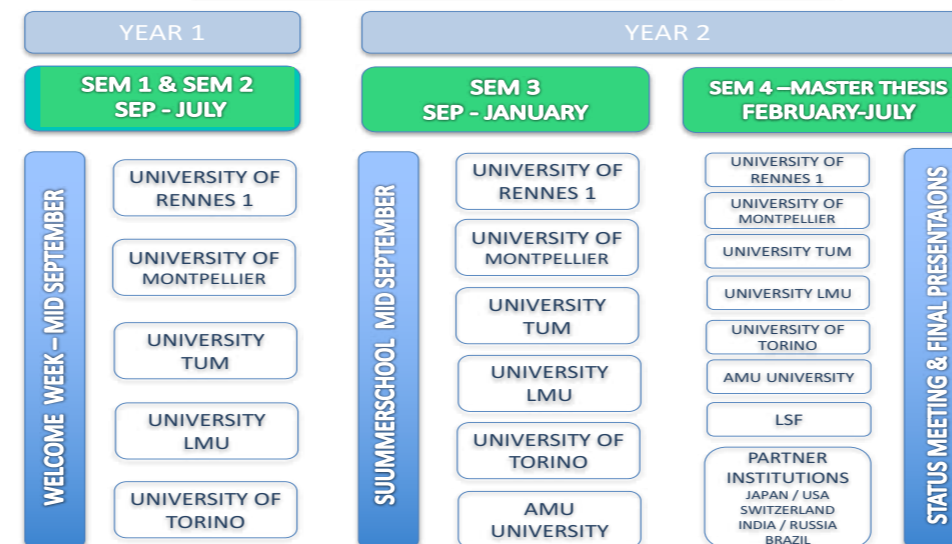
Cristallography, quantum mechanics, materials for energy transfer & storage, catalysis, surface science, ceramics, metallurgy, management & entrepreneurship

POZNAN

Materials science

Solar energy conversion, spintronics, quantum and nonlinear optics, metamaterials and magnonics, ultrafast spectroscopy

MAMASELF MOBILITY PROGRAM



Application

Electronic submission on : <http://application.mamaself.eu>

Application deadlines for scholarships

Partner countries students (Non-EU students) : 9 February 2020

Program countries students (EU and Non-EU students) : 20 March 2020

Self-funded students : 15 May 2020

(For details see website www.mamaself.eu)

Scholarships

For each academic year the consortium selects a limited number of non-EU and EU students, who will receive a grant up to

Partner countries students (Non-EU students): 43.000€ for 2 years

Program countries students (EU and Non-EU students): 37.000€ for 2 years

Selected students can participate in the Master's course without EM grant or apply for other grants (for more information see website).

Tuition fees

Partner countries students (Non-EU students): 6000€/year

Program countries students (EU and Non-EU students): 3000€/year

Health insurance, language courses,... are already included in the tuition fees.

Admission criteria

Students must have a Bachelor (180 ECTS or equivalent) in Materials Science or related disciplines (chemistry, physics, geo-science, ...) ; and good English competencies, e.g. TOEFL 230 CBT, PBT 550, IBT 80, IELTS 6.5 or equivalent.

(See details www.mamaself.eu)

