MaMaSELF+

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.

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)

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MaMaSELF+

Erasmus Mundus

MaMaSELF+

Choose Academic Excellence
Join Erasmus Mundus, a Label of excellence. This is the guarantee of a high level program and diplom, and transferable qualification.

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

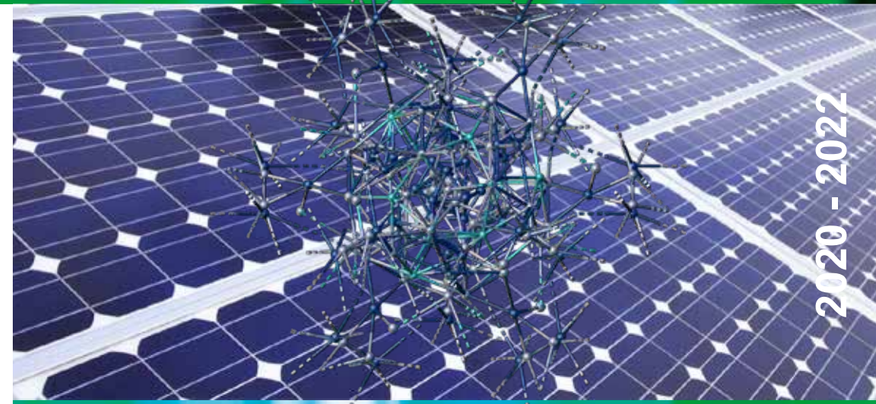
Choose Science
Work at highly recognized institutions and research groups. Learn more about Large Scale Facilities, Investigate the intimate nature of materials.

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



2020 - 2022

The Consortium

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

University of Rennes 1, France
Pr P. Rabiller, coordinator
philippe.rabiller@univ-rennes1.fr
www.univ-rennes1.fr

University of Montpellier, France
Pr W. Paulus
werner.paulus@umontpellier.fr
www.umontpellier.fr

Adam Mickiewicz University
Pr J. Kubicki
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www.amu.edu.pl

Technical University of Munich
Pr W. Petry
winfried.petry@tum.de
www.tum.de

Ludwig Maximilians University of Munich
Pr W. Schmahl
Wolfgang.W.Schmahl@lrz.uni-muenchen.de
www.lmu.de

University of Torino, Italy
Pr S.Bordiga
silvia.bordiga@unito.it
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Contact
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Tel +33 (0)2 23 23 58 58
christiane.cloarec@univ-rennes1.fr

For all details please refer to the Mamaself website :
www.mamaself.eu
For application : http://application.mamaself.eu

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

FRANCE
GERMANY
ITALY
POLAND



MaMaSELF+

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 sientists in Mayerials 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 build 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 of higher education. It strongly supports high quality Master courses to enhance visibility and attractiveness of European higher eduction 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

With the support of the Erasmus+ programme of the European Union

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

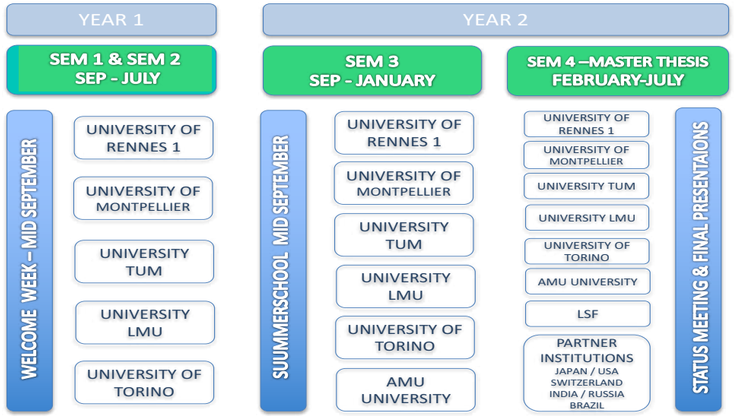
Materials science
Cristallography, quantum mechanics, materials for energy transfer & storage, catalysis, surface science, ceramics, metallurgy, management & entrepreneurship

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)

