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 or synchrotron 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).

www.mamaself.eu

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.

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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Technical University of Munich
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Ludwig Maximilians University of Munich
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University of Torino, Italy
Pr C. Lamberti
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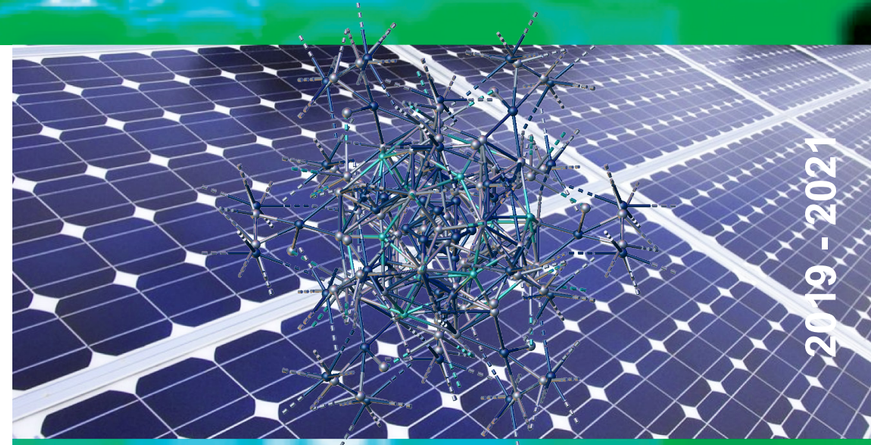
For all details please refer to the Mamaself website :
www.mamaself.eu
For application : http://application.mamaself.eu

MaMaSELF

Master in Materials Science
Exploring Large Scale Facilities

www.mamaself.eu



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

FRANCE
GERMANY
ITALY
POLAND

MaMaSELF

Mamaself Master Course

The development of new technologies and new materials plays a key role in the technological and scientific competitiveness of highly industrialized countries worldwide. This implies new and additional exigencies for scientists and engineers in the field of scientific and technological advancements.
The MaMaSELF main objective is to form skilled scientists in Materials Science with advanced knowledge on the use of Large Scale Facilities - such as neutron reactors, synchrotron sources or free electron lasers - for the characterization of high technology 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 and India, USA, 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 and Italian language at the respective consortium site.

Erasmus + and Erasmus Mundus

The Master Mamaself course has been build in the framework of the Erasmus Mundus European program in 2007. 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.

Erasmus Mundus website:

http://ec.europa.eu/education/programmes/mundus/index_en.html

Principal teaching programmes

RENNES

Materials science
Crystalloraphy, solid state chemistry, condensed matter, semi-conductors, metal & alloys, nanomaterials, surface science, sensors, ceramics & glasses, polymers, management & entrepreuneurships

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

YEAR 1		YEAR 2		
SEM 1 & SEM 2 SEP - JULY		SEM 3 SEP - JANUARY		SEM 4 –MASTER THESIS FEBRUARY-JULY
WELCOME WEEK – MID SEPTEMBER	UNIVERSITY OF RENNES 1	SUUMMERSCHOOL MID SEPTEMBER	UNIVERSITY OF RENNES 1	UNIVERSITY OF RENNES 1
	UNIVERSITY OF MONTPELLIER		UNIVERSITY OF MONTPELLIER	UNIVERSITY OF MONTPELLIER
	UNIVERSITY TUM		UNIVERSITY TUM	UNIVERSITY TUM
	UNIVERSITY LMU		UNIVERSITY LMU	UNIVERSITY LMU
	UNIVERSITY OF TORINO		UNIVERSITY OF TORINO	UNIVERSITY OF TORINO
			AMU UNIVERSITY	AMU UNIVERSITY
				LSF
				PARTNER INSTITUTIONS JAPAN / USA SWITZERLAND INDIA / RUSSIA BRAZIL
				STATUS MEETING & FINAL PRESENTAIONS

Application

Electronic submission on : http://application.mamaself.eu
Application deadlines for scholarships
Partner countries students (Non-EU students) : 8 February 2019
Program countries students (EU and Non-EU students) : 15 March 2019
Self-funded students : 15 May 2019
(For details see website www.mamaself.eu)

Grants

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): 14.500€ per year
Program countries students (EU and Non-EU students): 10.000€ per year
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)