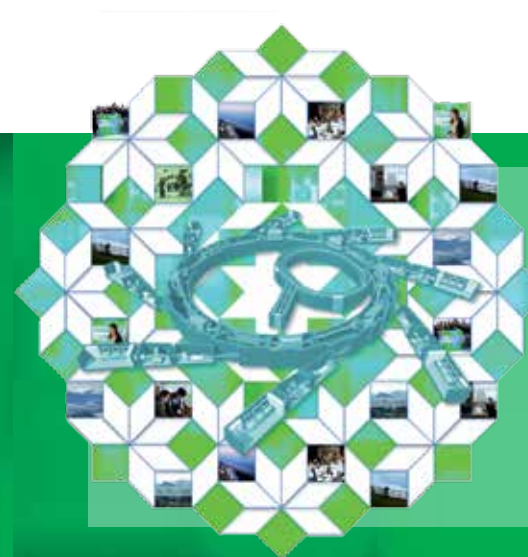


Summer school

A 2 weeks summer school is organized for all Mamaself students in the beginning of the second year at the University of Rennes. 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.



MaMaSELF is a 2 year ERASMUS MUNDUS Master Course in Materials Science Exploring Large Scale Facilities. It deals with material characterization using neutron and synchrotron radiation with strong synergies between universities, industrial partners and research centres. In an international environment, it offers excellent academic and industrial opportunities to Master Students.

www.mamaself.eu

**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), **Poland** (Adam Mickiewicz University), **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).

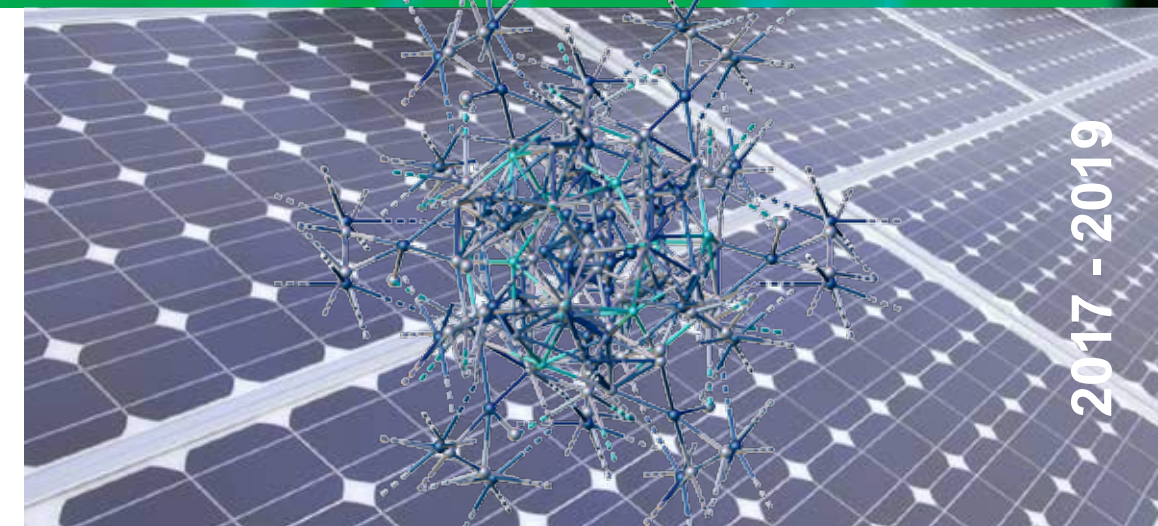


The Consortium

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 http://www.umontpellier.fr</p>	<p>Ludwig Maximilians University of Munich Pr W. Schmahl wolfgang.schmahl@lrz.uni-muenchen.de www.lmu.de</p>
<p>Contact Christiane CLOAREC Tel +33 (0)2 23 23 58 58 mamaself@listes.univ-rennes1.fr</p>	<p>University of Torino, Italy Pr C. Lamberti carlo.lamberti@unito.it www.unito.it</p>

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



2017 - 2019

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



**FRANCE
GERMANY
ITALY**



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 Master's Course aims at promoting international collaboration among Universities, Large Scale Facilities and Industry. Its main objective is to form skilled scientists in Materials Science together with an advanced knowledge in the use of Large Scale Facilities for the characterization of high technology materials.

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 Mundus

The European ERASMUS-MUNDUS programme 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. It can provide EU-funded scholarships for non-EU and EU students participating in these Master Courses. Additional scholarships are foreseen for visiting non-EU Academics. The Master Mamaself is part of the Erasmus Mundus 2 framework.

Erasmus Mundus website:

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

Principal teaching programmes

RENNES

Materials science

Basics in solid state Chemistry and Physics, quantum mechanics, electrochemistry and corrosion, thin films, nano- and bio-materials, interfaces, semiconductors, polymers, sensors

Management: Entrepreneurial project, marketing

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

MAMASELF MOBILITY PROGRAM

YEAR 1

SEM 1 & SEM 2 SEP - JULY

UNIVERSITY
RENNES1

UNIVERSITY
TUM

UNIVERSITY
LMU

UNIVERSITY OF
TORINO

UNIVERSITY
MONTPELLIER 2

WELCOME WEEK - MID SEPTEMBER

YEAR 2

SEM 3 SEP - JANUARY

UNIVERSITY
RENNES 1

UNIVERSITY
TUM

UNIVERSITY
LMU

UNIVERSITY
OF TORINO

UNIVERSITY
MONTPELLIER2

SUMMERSCHOOL MID SEPTEMBER

SEM 4 FEBRUARY-JULY

UNIVERSITY
RENNES1

UNIVERSITY
MONTPELLIER 2

UNIVERSITY
TUM

UNIVERSITY
LMU

UNIVERSITY OF
TORINO

PARTNER
INSTITUTIONS
JAPAN
USA
SWITZERLAND
INDIA
RUSSIA

STATUS MEETING & FINAL PRESENTATIONS

Application

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

Application deadlines (for the Erasmus Mundus fellowship)

Partner countries students (Non-EU students) : 30 January 2017

Program countries students (EU and Non-EU students) : 28 February 2017

Self-funded students : 15 May 2017

(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): 21.000€ 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)

