

**Title of partnership:****PaMaSELF: Partnership in Materials Science Exploiting Large Scale Facilities****Masters Course running the Partnership:**

MaMaSELF - Master of Materials Science exploiting European Large Scale Facilities

**Duration:** 3 years

**Summary description:**

PaMaSELF is a European programme in Materials Science exploiting Large Scale Facilities, offering to 2nd year Master students and scholars to experience high-level postgraduate education at universities and research centres in Japan and Switzerland.

The partnership has the following objectives:

- Establishing educational cooperation and to stimulate international exchange for teaching and research between important institutes in Materials Science in Europe and third country partners
- Promotion of dialogue and exchange for a better understanding between peoples and cultures
- Establishment of long-standing international collaboration in teaching and research among partner institutions.
- Enhancement of international visibility of European Universities

The consortium of the MaMaSELF European Master in Materials Science Exploitation Large Scale Facilities consists of three Universities: Rennes1 (France), Torino (Italy) and TU München (Germany) with close cooperation to the LMU München. The consortium establishes a 3 year partnership agreement with six third-country institutions: Institute of Chemical Research at the University of Kyoto (J), Department of Chemistry at the University of Kyoto (J), Centre for Crystal Science and Technology at the Yamanashi University of Kofu (J), Paul-Scherrer Institute: Laboratory for Neutron Scattering and the Swiss Light Source, Villigen (CH) and the Swiss Federal Institute of Technology (ETH) Zürich.

An outgoing mobility of 20 European students is foreseen per year, who will carry out part of their Master thesis (normally three months or more) in third-country institutions. Outgoing students will participate in research oriented seminars related to their Master thesis subject. Other mobility activities are foreseen for academic staff, development of common diploma and any other cooperation aspects as organisation of common summer schools and conference meetings.

European scholars are engaged in one month teaching activities as well as common research programmes and Master thesis supervision.

Selection criteria for students are scientific excellence (Master course scores or equivalent), motivation, language ability and letters of recommendation. Scholars are selected from the general management committee of the consortium on the basis of their involvement in teaching activities in the MaMaSELF Master Course, proposed teaching modules and research collaboration projects.

The language of instruction and work in all partnerships will be English.

**European Partners:**

- 1) FR – University of Rennes 1
- 2) IT – Torino University
- 3) DE - Technical University Munich

**Third-Countries Partner Institutions:**

- 1) Kyoto University (Japan)
- 2) University of Yamanashi (Japan)
- 3) Paul-Scherrer Institute (Switzerland)
- 4) The Swiss Federal Institute of Technology (Switzerland)

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**Grant**

366.000 € (45.000 € partnership + 321.000 € scholarships)