MaMaSELF
Master of Materials Science exploiting European Large Scale Facilities

Duration: 2 years

Course description:

MaMaSELF is a two-year full time European Masters program in Materials Science, building up a European platform, strongly involving “Large Scale Research Facilities”. The Masters degree is delivered by two or three out of four universities: Rennes1 (F), Torino (I), TUM and LMU at München (DE).

This Master aims to promote the scientific collaboration between Universities, Large Scale Facilities and Industry. Its main objective is to achieve skilled scientists in Materials Science together with an advanced knowledge in the use of Large Scale Facilities for the characterization of high tech materials.

The first year consists of lectures and laboratory courses at one out of the four Universities. Possible focus areas are: Physics of Materials at TUM, Chemistry and Nano science at Torino, Geomaterials and Geochemistry at LMU and Materials Science (Chemistry & Physics) combined with Management lectures at Rennes. For the 3rd semester students have to chose a university of the consortium, different from the 1st year. For the Master thesis work in the fourth semester students can choose between Universities of the consortium or partner institutions in Japan (Kyoto University), Switzerland (ETH Zürich and Paul Scherrer Institute) or in India (Indian Institute of Technology Madras) as well as Large Scale Facilities.

Admission criteria are three successful years of full time studies spent in a national BSc course (or equivalent) in Materials Science or related areas (Physics, Chemistry, Geoscience etc…) together with a proficiency level of scientific English, e.g. TOEFL210/550, IELTS6.5, or similar. The enrolment will be limited to 45 students per year to guarantee an excellent professor/student ratio.
Several important European Large Scale Facilities (ESRF and ILL (Grenoble, France), LLB Saclay, France), DESY (Hamburg, Germany) and FRM II (Munich, Germany), ELETTRA, Italy) strongly support this Master and will co-organize the summer school and will host students in the fourth semester to follow research activities.

Strongly multidisciplinary lectures in Chemistry, Physics and Material Science will be entirely given in English. Students will receive a double/multiple Master degree in Material Science, giving direct access to further PhD studies.

Website: www.mamaself.univ-rennes1.fr

Partners:
University of Rennes I, France (Co-ordinating institution)
Ludwig-Maximilians University of Munich, Germany
Technical University of Munich, Germany
University of Turin, Italy

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