A Bachelor degree (180 ECTS or equivalent) in Chemistry, Material science or Physics with elements of chemistry. English skills (TOEFL, IELTS or other proof).

Applications must be submitted through the website:

www.serp-chem.eu

Application deadline: Dec 15, 2011

INDUSTRIAL AND PUBLIC PARTNERS

www.serp-chem.eu

ADMISSION CRITERIA AND APPLICATION PROCEDURE

CONTACT INFORMATION

Programme Coordinator

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- Unwersytet im. Adama Mickiewicza, Poznan (Poland)
- Università degli Studi di Genova (Italy)
- Universidade do Porto (Portugal)

Be part of the experts and project leaders involved in the developing fields of environmental studies, green chemistry, renewable energies, material sciences, nanosciences, nano-medicine

www.serp-chem.eu
The Master Erasmus Mundus SERP-Chem aims at training young students in the most performing experimental and theoretical tools used and developed in chemistry. It is an answer for an increasing need of skilled people to participate in the efforts developed scientifically or industrially in areas of great relevance towards economic sustainability and environmental safety, conservation and protection such as:

- development "no-energy" chemistry based on photon-induced reactions,
- use of radiation induced processes to optimize applications, in medicine and renewable energies
- surface treatment and modification for catalysis
- development of compounds for enhancing the selectivity and the efficiency of chemical and industrial processes.

Students enrolled in the two-year programme will attend lectures in at least two different countries of their choice:

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
<th>Master Thesis</th>
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</table>

The programme promotes mobility and interdisciplinarity. The first semester is attended in Paris, or Genova and the second in Poznan or in Porto. The second year, students choose their specialization:

- **Photochemistry, Spectroscopy and Environment (PL)**
- **Nanostructured surfaces and Catalysis (IT)**
- **Industrial and Medical applications of radiations: catalysis, renewable energies and nano-medicine (FR)**
- **Functionalized Surfaces and Sustainable development (PT)**

A 6 months Thesis is performed during the last semester. Language and civilization courses of the host countries are compulsory.

**AN INTENSIVE SUMMER SCHOOL** is organized to allow students to develop entrepreneurial skills.

The language of instruction and examination is English. To ensure an optimal learning environment, the ratio professor/student is close to 2. Each host institution has facilities to help in the social integration of the participants (visas, accommodation, cultural activities).

**DEGREE AWARDED**

At the end of this course, students will be awarded a double or multiple diploma, with a joint diploma supplement.