

EUDIME
Erasmus Mundus Doctorate in Membrane Engineering

Duration: 3-4 years

Programme description:

The Erasmus Mundus Doctorate in Membrane Engineering (EUDIME) is designed to implement - at international level - excellence, innovation, mobility and multidisciplinary in investigation approaches related to membrane science and technology. The consortium includes six leading partner institutions: University of Twente (The Netherlands), Institute of Chemical Technology Prague (Czech Republic), University of Montpellier 2 and University Paul Sabatier-Toulouse (France), University of Leuven (Belgium), and University of Calabria (Italy). The EUDIME consortium also includes the following associate partners: University of Lisboa (Portugal), University of Zaragoza (Spain), RWTH Aachen (Germany), the European Membrane Society, the European Membrane House, and five industrial companies well-reputed in the field: SAPIO S.r.L. and GVS S.p.A. (Italy), Veolia Environment (France), Alfa Laval A/S (Denmark), and Mikropur s.r.o.(Czech Republic). The HEI members are also involved in the Erasmus Mundus Master in Membrane Engineering - EM3E (www.em3e.eu).

Based on 4.5 years (2004-2009) of experience and high-level international cooperation in the framework of the FP6 European Network of Excellence "NanoMemPro", the EUDIME consortium shares a common platform for advanced and high-competitive training and research activities on membrane engineering at European level, with worldwide recognized excellence.

The Programme offers a unique opportunity to doctoral candidates for career in academia or in industry as R&D membrane engineers. Research and training activities cover a large spectrum of emerging and industrially-assessed applications in the field of membrane engineering, such as: desalination and water treatment, gas separation at molecular level (CO₂ capture, O₂/N₂/H₂ purification etc.), (bio)catalytic membrane reactors (MBR, PEM fuel-cells, biofuel production etc.), membrane processes for agro-food applications, tissue engineering/artificial organs/biomedical devices. The programme, mainly laboratory-based, includes two mandatory mobility periods (each one of 6 months) in two different Universities of the consortium, scheduled as relevant and instrumental to the fulfilment of the research activities of the doctoral candidate. In order to address the professional career development and employability of PhD students, the industrial companies involved in the programme will play a key role in orienting research projects and in co-supervision activities.

For admission to the programme, candidates must hold a 2nd Level Master Degree (120 ECTS) or a Single-Cycle Degree (minimum 240 ECTS) in Chemical Engineering or Bio-Engineering, Materials Science, Chemistry or a equivalent degree in a pertinent field.

The official language is English; specific courses on country languages and culture will be provided. The successful candidates will be awarded a fully recognized multiple and/or a joint degree issued by three consortium institutions (Home University and two Hosting Universities), completed by a diploma supplement.

Website: <http://eudime.unical.it>

Partners:

UNIVERSITY OF CALABRIA, Italy (Co-ordinating Institution)
CATHOLIC UNIVERSITY OF LEUVEN, Belgium
INSTITUTE OF CHEMICAL TECHNOLOGY PRAGUE, Czech Republic
UNIVERSITY OF MONTPELLIER 2, France
UNIVERSITY PAUL SABATIER - TOULOUSE, France
UNIVERSITY OF TWENTE, Netherlands

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