Conference contribution:
A success story of funding and delivering Erasmus Mundus postgraduate study programmes in the College of Engineering at Swansea University from 2007 to present day

Dr Clare Wood, Dr Rubén Sevilla, Prof. Antonio J. Gil

Erasmus Mundus Masters Course in Computational Mechanics (EMMC v1)

Funding: €3M, 2007-2012
International consortium: Swansea University (UK), Universitat Politècnica de Catalunya (Spain), École Centrale de Nantes (France), Universität Stuttgart (Germany)
Study programme: Two-year 120 ECTS programme
Compulsory taught and research elements, industrial placement and mandatory mobility across two institutions
Outcomes: Five cohorts graduated=100 MSc students; Graduate destinations: 45% PhD research, 55% to industry

Erasmus Mundus Joint Doctorate (EMJD) “Simulation in Engineering and Entrepreneurship Development” (SEED)

Aims: Provide in-depth doctoral training in the development and implementation of new state-of-the-art computational techniques for industry
Funding: €3M, 2013-2018
Academic partners: École Centrale de Nantes, France, (Portugal), Istituto Universitario di Studi Superiori di Pavia (Italy), Swansea University (UK), Technische Universität Eindhoven (Netherlands), Technische Universität München (Germany), Université Libre de Bruxelles (Belgium) Universitat Politècnica de Catalunya (Spain)
Research/Industry partners: International Centre for Numerical Methods in Engineering (CIMNE) (Spain), Goodyear, AdCo Engineering, Rockfield Ltd, BAE Systems, Phillips, Tata Steel

Horizon 2020 European Training Network (ETN) “Empowered decision-making in simulation-based engineering: Advanced Model Reduction for real-time, inverse and optimization in industrial problems” (AdMoRe)

Aims: Provide in-depth training of Early Stage Researchers (ESRs) in the development and application of state-of-the-art computational models and numerical methods to solve cutting-edge industry-led engineering problems
Funding: €2.1M, 2013-2018
Participants: Swansea University, Universitat Politècnica de Catalunya, Ecole Centrale de Nantes Volkswagen, Airbus, ESI Group, Siemens

“...I gained immensely from the high quality coursework, extensive research support, confluence of cultures and unforgettable friendship”, Prabhu Muthuganeisan, EMMC graduate

“Internationalisation”
- Coordinated student mobility
- Joint summer schools

“Transversal Skills”
- Languages
- Entrepreneurship
- Project planning

“Industry Partnership”
- Cutting edge industry relevant research topics
- High graduate employability
- Economic benefits

“Academic Partnership”
- Sharing best practice
- Dynamic research & teaching environment

% EMMC students per year
Self-funded EACEA scholarships

EMMC scholarships by type per year
Category A Category B Windows Total

Win! Successful MSC renewal!

Win! Successful expansion to doctoral & ESR training!