



Swansea University
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Conference contribution :

Wood, C. & Gil, A. *A success story of funding and delivering Erasmus Mundus postgraduate study programmes in the College of Engineering at Swansea University – 2007 – present..* Manchester: HEA Annual Conference 2017: Generation TEF: Teaching in the spotlight.

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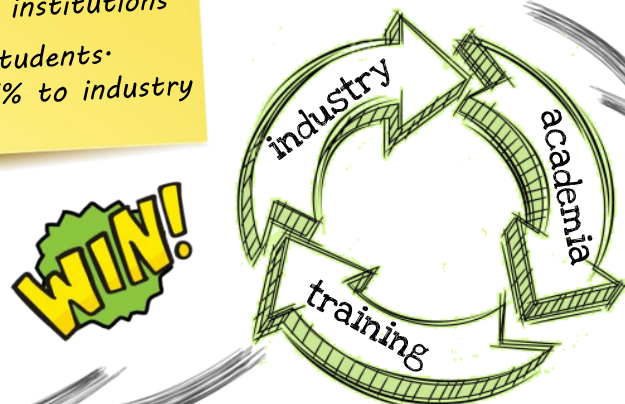
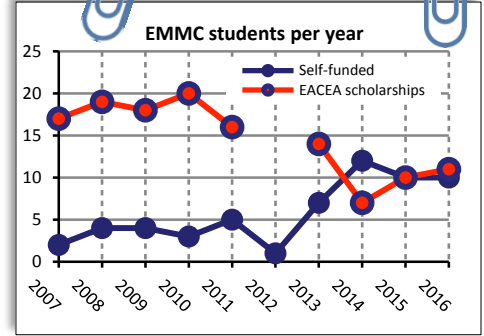
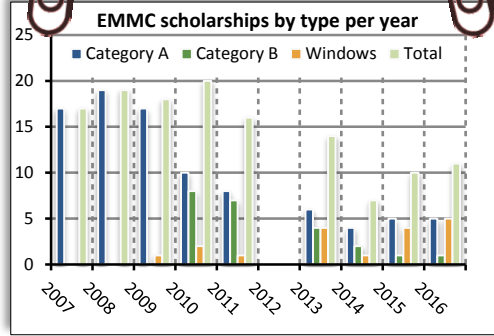
Erasmus Mundus Masters Course in Computational Mechanics (EMMC v1)

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



Successful MSc renewal! **WIN!**

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 Universiteit 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

Successful expansion to doctoral & ESR training! **WIN!**

Erasmus Mundus Masters Course in Computational Mechanics (EMMC v2)
Funding: €2M, 2013-2018
Additional consortium partner: Tsinghua University, China
Updates: New language & transversal skills courses, joint Summer School

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 Researches (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

- 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

