EMship+ key points

> An interdisciplinary combination of technical, scientific and management skills obtained through a worldwide unique qualification program supported by six leading European universities, offering a double degree Master diploma and excellent career opportunities to graduates.

> Three different specializations offered during the second year, after a one-year common core.

> The opportunity to experience a variety of academic and cultural environments through a mobility scheme covering two or three different countries.

> An international network of associated universities and industrial partners.

Tuition fees for 2018-2019

> 6,000 € per year for Non-EU students

> 1,500 € per year for EU-students.

> Health insurance has to be taken by the students (low fare is available).

Scholarships

INDUSTRIAL and ACADEMIC Scholarship:

> Excellent candidates can be granted for reduced tuition fees and/or living expenses.

> Applications must be sent to ULg/Prof Rigo (info@emship.org)

Language

> All the lectures are in English.

> French, German, and Polish language courses are available.

> A four weeks compact Course of English is available at the University of Liège before the start of the first semester.

Application

Online on http://www.emship.eu

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Master of Engineering
Advanced Design of Ship and Offshore Structures

organised in the continuation of the 90ECTS EMSHIP Erasmus Mundus programme 2010-2017

Contact
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www.emship.eu
EMship+

The EMship+ Master Course provides an outstanding university program in Naval Architecture, Ship and Offshore Design in 2 years - 120 ECTS Credits - Master Course

Admission criteria

Candidates have to hold a Bachelor's Degree (180 ECTS) or its equivalent in Mechanical, Material, Civil or Marine engineering, Applied Mathematics or related fields. Students holding a Master degree (4 or 5 years of study, 240 or 300 ECTS) are also eligible.

Candidates with specific CVs are also invited to apply:

- Engineers searching for advanced education in hydrodynamics, design, production, structures of ships or offshore installations, CAD and information technology.
- Students seeking complementary education in deep sea transport, mega/motor yachts, sailing pleasure crafts and also in safer and cleaner navigation.

EMship+ directly relates to the future needs of the European and international marine industry.

Consortium

The consortium is composed of six European universities with a strong expertise in the diverse fields of Marine Engineering:

- University of Liège (Belgium) coordinator of the program http://www.anast.ulg.ac.be
- University of Rostock (Germany) http://www.schiffbauforschung.de
- West Pomeranian University of Technology (Poland) http://www.wtm.zut.edu.pl
- Centrale Nantes (France) http://www.ec-nantes.fr
- Dunarea de Jos University of Galati (Romania) http://www.ugal.ro
- ICAM - Institut Catholique d’Arts et Métiers (France)
- University of Genova (Italy) http://www.unige.it
- Southampton Solent University (UK) http://www.solent.ac.uk/
- University of Osaka (Japan)
- Istanbul Technical University (Turkey)
- Federal University of Rio de Janeiro (Brasil)
- Pusan National University (South Korea)
- University of New South Wales (Australia)
- University of Sciences and Technology of Oran (Algeria)
- University of Osaka (Japan)
- University of Genova (Italy)
- Southampton Solent University (UK)
- University of Osaka (Japan)
- University of Genova (Italy)
- Southampton Solent University (UK)

The mobility scheme involves 2 years in 2 (or 3) countries:

The first year (60 credits) is dedicated to general lectures in mechanical engineering (1st semester) and in Advanced Ship Design (2nd semester) in University of Liège.

The second year is dedicated to Advanced lectures in Marine Technology & Ocean Engineering (1st semester, 30 ECTS) and Master Thesis & Internship (2nd semester, 30 ECTS)

Students are allocated in one of the three Universities below:

University of Rostock (Germany) Ship Technology & Ocean Engineering 30 ECTS

West Pomeranian University of Technology (Poland) Advanced ship and offshore structures 30 ECTS

Centrale Nantes (France) Hydromechanics for Ocean Engineering 30 ECTS

Study Program

The first year (60 credits) is dedicated to general lectures in mechanical engineering (1st semester) and in Advanced Ship Design (2nd semester) in University of Liège.

### Module 1: Mechanical Engineering (30 ECTS)

- Theory and Design of Floating and Founded Offshore Systems 6 ECTS
- Design of Ship and Offshore Structures 6 ECTS
- Selected Topics in the Analysis of Marine Structures 6 ECTS
- Mechanics of Ship and Offshore Structures 6 ECTS
- Mathematical Models in Ship Theory 6 ECTS
- Production Technology of Ship and Offshore Structures 6 ECTS
- IT in Ship Design and Production 6 ECTS
- Marine Power Engineering 3 ECTS
- Numerical Hydrodynamics 3 ECTS
- Safety of Ships under Damaged Conditions in Waves 6 ECTS
- Analysis and Optimisation of Business Projects in Marine Industry 3 ECTS

### Module 2: Hydrodynamics (30 ECTS)

- Ocean Research Technology 6 ECTS
- CFD Tools for Ship Simulation 6 ECTS
- Naval Engineering 5 ECTS
- Ship Maneuuvrability 5 ECTS
- Multi-objective Optimization 5 ECTS
- CFD Tools for Ship Simulation 5 ECTS

### Module 3: Team Project (Mandatory) 6 ECTS

- French Language 4 ECTS

### MASTER THESIS and INTERNSHIP: 30 ECTS credits

They are prepared under the supervision of the university where students are enrolled for the 2nd year. They can be undertaken in this university, in an other university partner, in world-recognized universities or companies.

Emship graduates will be awarded a Double degree from University of Liège (Belgium) and the university of the 2nd year, either University of Rostock (Germany), West Pomeranian University of Technology (Poland) or Centrale Nantes (France).