The global wind energy sector is growing exponentially, with jobs expected to double every ten years. In order to meet the future demand of professionals in wind energy, a new MSc will be launched: The Erasmus Mundus European Wind Energy Master (EWEM). EWEM, awarded with an Erasmus Mundus label, is a cooperation between Delft University of Technology, the Technical University of Denmark, the Norwegian University of Science and Technology and the Carl von Ossietzky University Oldenburg, four world leaders in wind energy.

**WIND ENERGY**
The 2009 EU Renewable Directive specifies that renewable energy sources should provide about 35% of the EU’s electricity consumption. By 2020, wind energy is set to contribute nearly 35% of all the power coming from renewable sources. Wind energy jobs in Europe are expected to grow from the current 200,000 to 450,000 by 2020. The global growth will be even faster, particularly in China, the US and India. Global wind energy jobs are expected to double every ten years, from 630,000 in 2010 to 2.4 million in 2030.

**EWEM**
Due to the global growth of the wind energy sector, the current supply of academics from universities is insufficient to meet the future demand both in number and skill. The European Wind Energy Master program will be launched in order to educate 120-150 graduates per year, covering the top 1-2% demand of wind energy professionals. The EWEM program aims to train students in emerging research domains with a high potential impact to shape the future of the wind energy sector. Especially, the emerging offshore wind energy market demands new research, knowledge, insight and professionals. EWEM prepares students for employment in multidisciplinary departments in industry and/or for continuing their studies within PhD programs.

EWEM is an advanced MSc for elite cohorts of students. The joint first semester and the specific multi-disciplinary and project-oriented teaching will give the student the ability to transfer knowledge and competences beyond his/her specialization and to embed design choices in a sociotechnical context. The student acquires knowledge in theoretical and applied sciences underlying wind energy systems, and specific competences necessary to operate in the chosen area of specialization. These four specializations along the energy conversion chain are Wind Physics, Rotor Design, Electric Power Systems and Offshore Engineering. Each track is a two-year joint program that equals 120 ECTS. The Wind Physics track allows students to master the specific technical knowledge required in one or more of the sub-fields of Wind Resource Assessment. Following the Rotor Design track will give students the required knowledge in one or more of the sub-fields of Wind Turbine Rotor R&D. These subfields are Structures and Design, Aerodynamics and Composite Design Ma-
rial Production & Manufacturing. The focus in the Electric Power Systems track lies on the components and systems required for renewable energy integration within the power system. The Offshore Engineering track trains students to design offshore structures for wind turbines. Considerations on the manufacturing installation and operations & maintenance will be treated in detail.

ERASMUS MUNDUS
Erasmus Mundus is a cooperation and mobility program in the field of higher education that aims to enhance the quality of European higher education and to promote dialogue and understanding between people and cultures through cooperation with developing countries. In addition, it contributes to the development of human resources and the international cooperation capacity of higher education institutions in developing countries by increasing mobility between the European Union and these countries. With a European Commission’s Erasmus Mundus award, EWEM guarantees an MSc of outstanding quality. Erasmus Mundus aims to enhance quality in higher education through full scholarships and academic cooperation between Europe and the rest of the world. The program offers financial support for institutions and scholarships for individuals.

ASSOCIATED PARTNERS
EWEM cooperates with the most relevant wind energy partners, ranging from wind energy associations, wind turbine manufacturers, (offshore) wind farm developers, R&D institutions, utilities and other players in the wind energy value chain. These institutions provide access to world-class infrastructure for wind energy research and development as well as opportunities for graduating students to continue their studies with a PhD. This strong link between education and research ensures a contemporary program at the cutting edge of research. Thanks to this cooperation, EWEM gives the chance to bridge the gap between the academic world and professional work.

DIPLOMA AND CAREER PROSPECTS
Graduates with an MSc in wind energy have outstanding career opportunities. As a graduate, you are at the forefront of this very new, exciting and expanding field of wind energy. EWEM prepares these graduates for a career both in industry and in academia. The relevance of the vast network of EWEM associated partners guarantees that students and graduates have a high visibility with the largest players in wind energy. In addition, an EWEM graduate will receive a double diploma in wind energy and engineering, awarded by two of the host universities. The choice of double-degree is based on the relevance of the contribution of the partner to each track. All graduates will receive an MSc in Wind Energy and depending on which track that has been followed, an MSc in Physics, Aerospace Engineering, Electrical Engineering or Offshore Engineering will also be awarded. Therefore career prospects in Aerospace Engineering, Physics, Offshore engineering, Renewable Energy, Energy Systems, Electrical Engineering, Mechanical Engineering and others are possible.

ADMISSION
Prospective students must have obtained a BSc diploma of substantial quality (different for each track). This is a level corresponding to at least three years of studying at a university, or an equivalent to 180 ECTS.

Detailed information about the programme and the application regulations can be found at www.windenergymaster.eu, the official website for the "European Wind Energy Master", or you can check the Facebook page of the European Wind Energy Master.

References
EWEM official website: http://www.windenergymaster.eu