

EMMSP - Erasmus Mundus Master of Science in Photonics

2006-0043 / Duration: 2 years

Summary description:

The aim of the partnership is to establish an exchange programme both for scholars and students between the EMMP (Erasmus Mundus MSc in Photonics) and other Photonics centres of excellence outside Europe. These partners have been selected on the basis of two criteria: excellence in photonics research as well as excellence in photonics education.

Furthermore the partnership builds upon existing cooperations between at least one of the EMMP partners and each of the 3rd country institutions, whereby each of the 3rd country institutions is doing world-leading research in at least one subdomain of photonics complementary to the research specialties of the EU partners.

The involved 3rd country institutions are, each, recognized top-level institutions in their country, both at the general level and in the specific field of photonics. They are:

- The University of Sydney, Sydney, Australia
- The University of Tokyo, Tokyo, Japan
- Zhejiang University, Hangzhou, P.R. China

As an example of existing cooperations Zhejiang University and KTH have established since 2004 a joint research center in Photonics.

The student exchange programme will enable European EMMP students to study one semester of the second Master year at a non-European institution in order to take course modules and to do their master thesis. Some thesis subjects will be jointly offered by a consortium partner and a 3rd country partner. Also students from the 3rd country partner institutions will have the opportunity to do one semester of their studies at a consortium university. A total number of 10 exchanges in each direction per academic year is foreseen.

Both outgoing and incoming students will be selected on the basis of their academic performance and their letter of motivation. The final selection will be made in consultation with the 3rd country partner institutions.

The scholar exchange programme envisages two main goals. First of all, the scholars will monitor accurately the student exchange programme of which the quality can only be reassured if each 3rd country partner has a durable relation with one of the consortium partners. The other main goal is research cooperation. The know-how obtained through this cooperation will benefit both the education and research at the home institution. Through these two mechanisms the existing cooperations will extend throughout the whole EMMP consortium which will lead to even deeper involvement of the non-EU partners in the future.

In all exchanges the medium of communication and instruction will be English.

European Partners:

- (1) University of Ghent (BE)
- (2) University of Brussels (BE)
- (3) Royal Institute of Technology (SE)
- (4) University of St. Andrews (UK)
- (5) Heriot-Watt University (UK)

Third-Countries Partner Institutions:

- (1) Zhejiang University (China)
- (2) The University of Sydney (Australia)
- (3) The University of Tokyo (Japan)

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