European Master in Software Engineering

Free University of Bozen-Bolzano (Italy)

Blekinge Tekniska Hoegskola (Sweden)

Teknische Universität Kaiserslautern (Germany)

Call for Student Applications

EMSE 2012-2014

Online Application at:

Application web site: http://emse.inf.unibz.it

1. EUROPEAN MASTER IN SOFTWARE ENGINEERING

The Consortium of the Free university of Bozen-Bolzano (Italy), the Blekinge Tekniska Hoegskola (Sweden), and the Teknische Universität Kaiserslautern (Germany) offer a two year (120 ECTS credits) Joint Master's Programme, named European Master in Software Engineering (EMSE).

The objective of the Master's Programme is to educate professionals in the field of Software Engineering. Software engineering aims at the creation of high quality software in a systematic, controlled, and efficient manner. The participants will be able establish and use sound engineering principles and practices in order obtain economically viable software that is reliable and works on real machine.

The programme foresees a mobility period in two different universities of the Consortium.

2. MASTER'S PROGRAMME

Description of the Programme

The objective of the Master's Programme is to educate professionals in the field of Software Engineering. Software engineering aims at the creation of high quality software in a systematic, controlled, and efficient manner.

This area covers a wide range of core topics, such as software process management, verification and validation, software design, and requirements engineering, and a pool of

specialities like software quality, distributed systems and development, open source software, and agile methods.

Structure of the Programme

The curriculum consists of core topics, specialities, a project and a thesis. The students will be admitted to a curriculum involving two universities of the consortium.

The student will spend one year in one university (the "first university"), and one year in the other university (the "second university"). Project and thesis work will be carried out at the second university and will be jointly supervised and evaluated by two professors, one from each university.

Starting term

The term starts between August – September depending on the first university regulation.

Learning outcomes

EMSE aims to train students in emerging research domains that shape the future of Software Engineering. It prepares students for employment in such cross-disciplinary areas and/or for continuing their studies within PhD programmes.

After completing the EMSE studies the student will have expertise, competence, and professionalism related to software management and quality, innovation and creativity, software process and product standards, social and economic market of IT, and teamwork.

The student will also attain expertise in putting his/her knowledge into practice by taking part in projects and/or in industrial student placement schemes.

Moreover, the student will attain practical project management skills which are necessary for an effective application of the knowledge acquired.

The international dimension of the Master's Course guarantees that students familiarise themselves with different educational methods and a multicultural education through the immersion in two different European universities and two different countries.

Language

All courses are taught in English. Students will also undertake courses on the culture and language of the European countries of the two universities. Local language courses are free of charge for EMSE students.

Graduation thesis

Work towards the thesis will be carried out at the second university will be jointly supervised and evaluated by two professors, one from each visited university.

3. MASTER'S DEGREE

Upon the successful completion of the curriculum and fulfilment of the Master's course requirements, students will be awarded a double degree, one for each university they have visited. The awarded degrees are:

- a Master of Science in Computer Science (Laurea Magistrale) from the Free University of Bozen-Bolzano or
- a Master of Science in Computer Science from the Blekinge Tekniska Hoegskola or
- a Master of Science in Computer Science from the Technische Universität Kaiserslautern

4. ADMISSION REQUIREMENTS AND SELECTION CRITERIA

Students are accepted in the program regardless of sex, age, or nationality. In order to be accepted all students must fulfil the following requirements:

- Respect the application deadline
- Provide proof of proficiency in English language. TOEFL (>550 (paper based), > 213 (computer based), or > 81(internet-based)), IELTS (>6.0) or equivalent certificates. Only applicants who are Nationals and/or first-degree-holders of Antigua&Barbuda, Australia, The Bahamas, Barbados, Belize, English-speaking Canada, The Gambia, Ghana, Grenada, Guyana, Republic of Ireland, Jamaica, Kiribati, Liberia, Mauritius, Micronesia, New Zealand, Nigeria, Papua New Guinea, St. Kitts-Nevis, St. Lucia, St. Vincent, Sierra Leone, Solomon Islands, Trinidad&Tobago, United Kingdom, United States of America, Zambia or Zimbabwe do not have to submit language certificates. The consortium can request a further personal interview to assess the student's English level.
- Have been awarded a BSc in Software Engineering, Computer Science or Computer engineering.
- Provide certificate of the subjects taken during their degrees, along with the marks obtained and the number of hours/credits devoted to each subject

Students will be selected according to the following criteria:

- Language skills
- Type of entrance qualification
- Academic records
- Work experience and professional qualifications
- Motivation and willingness

5. TUITION FEES

The tuition fees for academic year 2012-2013 are € 3800 for NON-EU students and € 2250 for EU Students. On top of the tuition and depending on the university, students will pay social taxes (if any, about 130 Euro per year).

Students will be provided access to the facilities of the participating universities (library, computers, laboratories, wi-fi, Internet, alumni associations, university sport associations).

6. SCHOLARSHIPS

For the course 2012/14 up to 6 scholarships will be offered to EU and NON-EU students. Among the scholarship up to 2 are reserved to NON-EU students visiting the Free university of Bozen-Bolzano (FUB) and the Technische Universität Kaiserslautern (TU_KL), up to 2 are reserved to EU students visiting the Free university of Bozen-Bolzano (FUB) and the Technische Universität Kaiserslautern (TU_KL), and up to 2 are reserved to EU students that visit the Blekinge Tekniska Hoegskola (BTH) in the fist year.

Type of grant	First Univ. – Second Univ.	Student Type	Grant per two years	Nr. of Grants
I	FUB-TU_UK or TU_KL-FUB	EU	20,000 Euro	Up to 2
II	FUB-TU_UK or TU_KL-FUB	NON-EU	24,000 Euro	Up to 2
III	BTH-FUB	EU	12,000 Euro	Up to 1
IV	BTH-TU_KL	EU	8,000 Euro	Up to 1

EU: are applicants who are residents of countries within the European Union and the European Economic Area/European Free Trade Association (Iceland, Liechtenstein, Norway)

NON-EU are all the applicants non in EU category.

Grant cover tuition fees and social taxes (if any, about 130 Euro per year). Grant rates may be taxed depending on each University regulation.

In the application, students must specify the type of grant (I, II, III, or IV). Students cannot apply to more than one type of grant. Each type of grant will have its own ranking that also includes a reserve list. Students in the reserve list can be offered to another type of grant if available. Students selected for one type of grant cannot change the two universities of destination.

7. HOW TO APPLY

The application is on-line at the central EMSE website http://emse.case.unibz.it/submissions/index.php

Applicants will be notified about the admission decision and whether they will be offered a scholarship. Registration procedures as well as visa procedure will also start after acceptance and registration deposit payment. Additional documents may be required.

Applicants will be required to fill out the on-line forms and to provide the following documents in electronic form.

Needed documents

- A copy/photocopy of the applicant's passport (or identity card for EU applicants). Only pages with a photo and personal data.
- A copy/photocopy of the IELTS, TOEFL, or CAE certificate (not older than 2008).
- A copy/photocopy of all academic degree certificates (i.e. Bachelor or equivalent, Master or equivalent) or other postgraduate degrees/academic qualifications. If the degree is not in English, German, or Italian, an English translation is needed, made by an officially recognised translator or your University.
- Copies/photocopies of all transcripts or other academic records that give proof of the higher education studies (i.e. Bachelors, Masters etc.) including credits and grades achieved in each single subject. Snapshots of university websites are not accepted.
- Working Experience (if any)
- Motivation Letter

Unreadable or incomplete documents or not submitted by the submission deadline will be not considered in the selection.

8. IMPORTANT DATES

- March 15, 2012, submission for NON-EU applicants

- April 16, 2012, notification of admission and scholarship to NON-EU applicants

- **June 18, 201**2 ~~May 22, 2012~~, **submission for EU applicants**

- July 23, 2012, notification of admission and scholarship to EU applicants

9. CONTACTS

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