Double Degree Master in Software Engineering

Free University of Bozen-Bolzano (Italy)

Univesidad Politécnica de Madrid (Spain)

Call for Student Applications

EMSE 2013-2015

Deadline April 9, 2013

Application web site: http://www.case.unibz.it/index.php/DDMSE
Online Application at: http://ddmse.case.unibz.it

**DDMSE has been awarded with the
Mediterranean Youth Office (MOY) Excellence Label.**

1. DOUBLE DEGRE MASTER IN SOFTWARE ENGINEERING

The Free university of Bozen-Bolzano (Italy) and Universidad Politécnica de Madrid offer a two year (120 ECTS credits) Joint Master's Programme, named Double Degree Master in Software Engineering (DDMSE).

> 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 is grounded on the experience cumulated in 2006-2013 with a successful European Masters Course in Software Engineering (EMSE) awarded as Erasmus Mundus for five years, 2007-2012.

2. MASTER'S PROGRAMME

Description of the Programme

The objective of the DDMSE 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, specificities, a project, an internship and a master thesis and will involve both universities: 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 carriedout at the second university and will be jointly supervised and evaluated by two professors, one from each university. The study plan depends on the learning path (UPM-FUB or FUB-UPM).
(for more information see http://www.case.unibz.it/index.php/DDMSE)

Starting term

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

Learning outcomes

DDMSE aims to train students in emerging research domains that shape the futureof Software Engineering. It prepares students for employment in such cross-disciplinary areasand/or for continuing their studies within PhD programmes. After completing the DDMSE 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 projectmanagement 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 withdifferent educational methods and a multicultural education through the immersion in two differentEuropean universities and two different countries.

Language

All courses are taught in English.

Both universities provide local languages (Italian, German, Spanish) course as well as foreign languages ones, like English and French. Students are invited to attend courses in local languages, for DDMSE students those courses are free of charge.

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 from each university they have visited. The awarded degrees are:

- Master of Science in Computer Science (Laurea Magistrale) from the Free University of Bozen-Bolzano or

- Master Universitario en Ingeniería del Software - European Master on Software Engineering from Universidad Politécnica de Madrid.

4. ADMISSION REQUIREMENTS AND SELECTION CRITERIA

Students are accepted in the program regardless of sex, age, or nationality.

New entrants students to the first year
In order to be considered for the selection all new entrants students to the first year must fulfil the following admission 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. An English proficiency certificate is not required in case of native speakers who come from countries where English is an official language. A further personal interview to assess the student's English level can be requested..
- Have been awarded an at least 180 ECTS (three years) BSc in Software Engineering, Computer Science or Computer Engineering or BSc degrees with equivalent skills in the three areas: 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
- Provide a mobility choice

Students that fulfil the above criteria will be selected according to:

- Language skills
- Type of entrance qualification (type of BSc awarded, quality of the university / faculty / department, the date of award)
- Study results (based on transcript of records, diploma supplement, and degree certificate)
- Work experience and professional qualifications
- Motivation and willingness (letter of motivation)
- Mobility experience in connection with the motivation and students' carrier plans (letter of motivation)

Students that do not fulfil the admission requirement are not further evaluated and are soon informed of their ineligibility.

Students already enrolled in local master programs in software engineering

First year FUB or UPM master students enrolled in 2012/2013 are eligible to apply to the second year of DDMSE if:

- They agree to spend the second academic year in a second university different from their home institution.
- Provide proof of proficiency in English language. TOEFL (>550 (paper based),>213 (computer based), or >81(internet-based)), IELTS (>6.0) or equivalent certificates.
- An English proficiency certificate is not required in case of native speakers who come from countries where English is an official language. A further personal interview to assess the student's English level can be requested.

Students that fulfil the above criteria will be selected according to:
- Language skills
- Study results
- Work experience and professional qualifications
- Motivation and willingness (letter of motivation)
- Mobility experience in connection with the motivation and students' carrier plans (letter of motivation)

5. TUITION FEE

Tuition and fees are consistent with the national legislation of the partner universities. No extra charge over the standard local tuition fee is foreseen to attend the programme.

The tuition fees for academic year 2013-2014 are:

- At the Free University of Bozen-Bolzano   1,286.50 Euro/year (including social fees)
- At the Universidad Politécnica de Madrid   3,900.00 Euro/year (including social fees)

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

Mediterranean Youth Office (MOY) Scholarship

Students enrolled in or admitted to DDME Master Program who fulfil with the following 5 compulsory requirements are eligible to apply for a MOY grant

1. be nationals of a MOY member country: Albania, Bosnia-Herzégovina, Croatia, Cyprus, Egypt, France, Greece, Italy, Lebanon, Malta, Montenegro, Morocco, Slovenia, Spain and Tunisia.
2. Are agree to spend 2 academic semester in a different institution of higher education in a partner country other than that of the applicant's home institution.
3. MOY mobility grants may not be combined with other mobility grant.
4. Grants cover a mobility period of 2 academic semesters (10 months) between September 1st, 2013 and December 31st, 2014;
5. Each semester of mobility must not be split (5 consecutive months and necessarily in the same country).

<u>Selection criteria</u>

Applicants for MOY grants undergo a competitive selection process conducted by MOY. The process is based on a qualitative assessment of the applications submitted by all participating institutions. The purposes of the assessment is to select the best students enrolled in programmes of Mediterranean interest, as determined by the MOY countries. Four selection criteria are used, listed below in decreasing order of importance.

- Educational background and academic achievements
- Mobility experience
- Personal and/or professional experience
- Letters of recommendation
- Financial conditions

MOY grants are designed to cover housing, meals and other living expenses, health insurance, and at least part of the transportation expenses related to the grantee's academic mobility. The amount of the grant is designed to be sufficient to cover one semester (five months) or two semesters (months) of mobility, depending on the grantee's educational plans. Grant amounts are adjusted depending on the cost of living in the host country and the distance between the home and host institutions. (See the weighting coefficients in annex II in the Guide for Use by Institutions.) The grant does not cover tuition and fees at the partner institution.

<u>Duration</u>

Grants cover a mobility period of ten consecutive months in the academic year 2013-2014. The mobility period coincides with the academic calendar of the hosting university.

<u>Amount</u>

Grants include a component for living expenses and a component for transportation. The monthly amount is € 1.150 at FUB and € 1.016 at UPM. The transportation allotment is a lump sum: €600. No additional sum will be given to MOY grantees to cover tuition fees at enrolment institution. These amounts are paid in accordance with the financial rules of MOY.

Study Grants from the Autonomous Province of South Tyrol that study at FUB

EU Students, non-EU Students with a CE permit to stay in Italy for longer periods, and EU Students with residence in the province of Bozen-Bolzano for at least one year, that study at FUB can apply to call for 633 study grants of a maximum of € 5,800 per year and the waiving of the tuition fee.

The value of the study grant can vary depending on the financial situation of the students

If you're interested in applying for one of these grants and if you want more information, we suggest that you contact the Office for the Right to Study to fix an appointment. You can access to the call at (only in German and Italian) http://www.provincia.bz.it/it/servizi/servizi-categorie.asp?bnsvf_svid=1005280

and contact the FUB Faculty secretariat at: computer.science@unibz.it

7. HOW TO APPLY

The application is on-line at **http://ddmse.case.unibz.it**

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 pageswith a photo and personal data.
- A copy/photocopy of the IELTS, TOEFL, or CAE certificate (not later 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 inEnglish, German, or Italian, an English translation is needed, made by an officially recognisedtranslator or your University.
- Copies/photocopies of all official transcripts or other official 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)
- A Motivation Letter
- Mobility experience in connection with the motivation and students' carrier plans

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

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.

IMPORTANT DATES

- April 9, 2013 application deadline for the DDMSE master program
- April – May 2013 (to be defined by MOY offices) application deadline for the MOY Scholarship
- June 2013 Selection of student grantees (MOY) and publication of list thereof.
- September-October 2013 Academic year begins
- October – November 2013 application deadline for grants from the Autonomous Province of South Tyrol

9. CONTACTS

DDMSE secretariat

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