

# European Master Course in Software Engineering



**Pilot Edition UPM-UNIKL**

**Call for Student Applications**

**EMSE 2014-2016**

**Deadline July 24th, 2014**

**Application web site:** <http://emse.inf.unibz.it>

**Online Application at:** <http://emse.case.unibz.it/submissions/index.php>

## 1. OVERVIEW

The Consortium of the Free University of Bozen-Bolzano (Italy), the Technische Universität Kaiserslautern (Germany), the Universidad Politécnica de Madrid (Spain), and the University of Oulu (Finland) will offer a two year (120 ECTS credits) Joint Masters Programme, named European Master Course in Software Engineering (EMSE) from course 2015-2016. Universidad Politécnica de Madrid (UPM) and the Technische Universität Kaiserslautern (UNIKL) will carry out a pilot study for the preparation of the new consortium procedures, offering a double degree program given by both universities following the quality principles established by the consortium.

### **Mission**

The objective of EMSE 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 learn and use sound engineering principles and practices in order obtain economically viable software that is reliable and works on real machine.

### **Description of the Programme**

A curriculum in Software Engineering covers a wide range of 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. The pilot study foresees a mobility period in two different universities of the Consortium: UPM and UNIKL. The student will spend the first year at UPM and the second year at UNIKL, following the study plan in Figure 1.

Project and thesis work will be carried out at UNIKL and will be jointly supervised and evaluated by two supervisors, one from each university.

(for more information see <http://www.inf.unibz.it/emse-dokuwiki/emse/rules>)

### **Starting term**

The term starts in September.

### **Learning outcomes**

EMSE aims at training students in emerging research domains that shape the future of Software Engineering. It prepares students for industry and research carriers as PhD programmes.

After completing the EMSE studies the student will have gained expertise, competence, and practical skills on software management and quality, innovation and creativity, software process and product standards, social and economic market of IT, and teamwork.

The international dimension of the Masters Course guarantees that students familiarise with different educational methods and cultures.



### 3. ADMISSION

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

To be admitted, applicants need to fulfil the admission criteria and be in ranking list or in the reserve list for the selection criteria.

This call is open only to European Union (EU) nationals or non-EU nationals with at least 12 consecutive months of residence in the EU.

### 4. ADMISSION CRITERIA

In order to be considered for the selection all students must fulfil the following admission requirements:

- Respect the application deadline
- Provide proof of proficiency in English language. TOEFL ( $\geq 550$  (paper based),  $\geq 213$  (computer-based), or  $\geq 81$  (internet-based)), IELTS ( $\geq 6.0$ ) 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 or degrees with equivalent skills in the three areas (Software Engineering, Computer Science or Computer Engineering)
- Provide a certificate of the subjects taken during their degrees, along with the marks obtained and the number of hours/credits devoted to each subject (Transcript of records).

### 5. SELECTION CRITERIA

Applicants that fulfil the admission criteria will be ranked according to the selection criteria. A ranking list and a reserve list will be defined for each learning path according to the following criteria:

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

Only applicants of the ranking list and reserve list are admitted to the program.

## 6. TUITION FEE

- € 4335/year for first year at UPM.
- € 2,720/year for second year at UNIKL.

Tuition fees cover any participation cost to EMSE, except the official fees charged for the issuance of the official degrees.

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

## 7. SCHOLARSHIPS

There are two available scholarships that cover the stay in UPM (first year). The scholarship amounts to a total of **€ 10,000**. Tuition fees for the first year are deducted from this scholarship. During the stay in UNIKL the second year the student will be self-paying, but the student may ask for grants offered by other institutions to cover his/her stay in UNIKL.

## 8. HOW TO APPLY

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

Enrolment procedures will start after deposit payment of the first instalment (see "how to enrol").

Applicants will be requested to fill out the on-line application and to provide the following documents in electronic form:

- 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.
- 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 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.

Additional documents or an interview may be requested.

Unreadable or incomplete documents or late submissions will not be considered.

In the application, students must specify the learning path, i.e. the first year and the second year university. Students selected for one type of path cannot later change the two universities of destination.

Students are ranked by learning paths.

### HOW TO ENROL

Admitted students will be contacted by the EMSE project manager and guided in the enrolment procedure.

**Admitted students must pay the tuition fee for the first year by September 31st, 2014**

### 9. IMPORTANT DATES/DEADLINES

- June 2<sup>th</sup>, 2014 — submission opening date for EU and NON-EU applicants with at least 12 consecutive months in EU.
- September 8<sup>th</sup>, 2014 — submission closing date for EU and NON-EU applicants with at least twelve consecutive months in EU.
- September 15<sup>th</sup>, 2014 — notification to applicants.
- September 20<sup>th</sup>, 2014 — participation confirmation of applicants.
- September 31<sup>st</sup>, 2014 — payment of the first-year tuition fee for all admitted applicants.

### 10. CONTACTS

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