

# European Master Course in Software Engineering

Free University of Bozen-Bolzano (Italy)

Blekinge Tekniska Högskola (Sweden)

Technische Universität Kaiserslautern (Germany)



## Call for Student Applications

**EMSE 2014-2016**

**Deadline March 30<sup>th</sup>, 2014**

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

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

European Commission,  
Directorate-General for Education and Culture, EAC



Executive Agency for Education,  
Culture and Audiovisual, EACEA



## 1. OVERVIEW

The Consortium of the Free University of Bozen-Bolzano (Italy), the Blekinge Tekniska Högskola (Sweden), and the Technische Universität Kaiserslautern (Germany) offer a two year (120 ECTS credits) Joint Masters Programme, named European Master Course in Software Engineering (EMSE).

### **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 full structure can be accessed at <http://www.inf.unibz.it/emse-dokuwiki/emse/description>

The programme foresees a mobility period in two different universities of the Consortium. The student will spend one year in one university (the "first university"), and one year in another university (the "second university") according to a learning path, i.e. the first year and the second year university. The learning paths and the relative study plans are accessible at [http://www.inf.unibz.it/emse-dokuwiki/emse/learning\\_paths](http://www.inf.unibz.it/emse-dokuwiki/emse/learning_paths)

Project and thesis work will be carried out at the second university 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 between August – October depending on the first university regulation.

### **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.

**Language**

All courses are taught in English.

Students are requested to get at least 2 ECTS in the local language (free of charge) in each university visited on top of the 120 ECTS.

**Internship Program**

At the second year students will be hosted in the EMSE associated partners for a mandatory internship.

## 2. MASTERS DEGREE

Upon the successful completion of the curriculum and fulfilment of the Masters course requirements, students will be awarded a double degree, one for each university they have visited. The official names of 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 Software Engineering from the Blekinge Tekniska Högskola or
- a Master of Science in Computer Science from the Technische Universität Kaiserslautern

### 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.

### 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.

Applicants in the ranking list will be awarded a scholarship according to the availability (see SECTION 8).

Applicants in the reserve list will be awarded a scholarship if any scholarship for any path is available after the applicants in the ranking list have accepted.

Applicants of the ranking list must communicate the participation by April, 20<sup>th</sup>, 2014. Applicants in the reserve list will be notified of available scholarships soon after and communicate the participation by April, 21<sup>st</sup>, 2014.

## 6. TUITION FEE

For each academic year, the tuition fees are € 4270 for NON-EU students and € 2720 for EU Students.

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 not in EU category.

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

For the edition 2014-2016, scholarships and contribution to tuition fees are offered to **NON-EU and EU students**. Scholarships and contribution to tuition fee cannot be cumulated. The number depends on the learning path chosen as in the following:

### Number of scholarships

Scholarship	Student	First University	Second University	Nr. of Grants
Type A	NON-EU	FUB or UNIKL	UNIKL or FUB	Up to 2
Type B	EU	FUB or UNIKL	UNIKL or FUB	
Type C	NON EU	BTH	UNIKL or FUB	Up to 2
Type D	EU	BTH	UNIKL or FUB	
TYPE E	NON EU	FUB or UNIKL	BTH	Up to 1

Applicants awarded with a scholarship or a contribution to tuition fee will receive the grant broken down depending on the learning path chosen:

Two-years grant	Type A (NON EU)	Type B (EU)	Type C (NON EU)	Type D (EU)	Type E (NON EU)
Contribution to travel, installation	€ 2,000 (**)	€ 0	€ 1,000 (**)	€ 0	€ 0
Monthly <b>net</b> allowance:	€ 720 / month 10 months at UNIKL <b>AND</b> € 610 / month 10 months at FUB	€ 720 / month 10 months at UNIKL <b>AND</b> € 670 / month 10 months at FUB	€ 720 / month 10 months at UNIKL <b>OR</b> € 610 / month 10 months at FUB No monthly allowance at BTH	€ 720 / month 10 months at UNIKL <b>OR</b> € 670 / month 10 months at FUB No monthly allowance at BTH	€ 0
Contribution to cover tuition fee	At FUB full coverage At UNIKL partial coverage	At FUB full coverage At UNIKL partial coverage	At FUB full coverage At UNIKL and BTH partial coverage (*)	At FUB full coverage At UNIKL and BTH partial coverage (*)	At FUB and UNIKL no coverage (#) At BTH partial coverage (*)
<b>Total grant (including taxes)</b>	<b>€ 24,000</b>	<b>€ 19,500</b>	<b>About € 15,850</b>	<b>About € 13,500</b>	<b>€ 3,843(*)</b>

(\*) Partial coverage of tuition fee: at UNIKL the grant does not cover an annual fee of 420 Euro, at BTH the grant does not cover 10% of the EMSE annual tuition fee.

(\*\*) Contribution to travel: Every year students receive 1000 Euro by the hosting university (only FUB and UNIKL). For Type C grant, during the stay at BTH there is no contribution to travel

(#) No coverage tuition fee: students must pay the full annual tuition fee if they choose either FUB or UNIKL; if they choose BTH, students only pay a fee of 427 Euro.

Type A and B are two years grants; Type C and D are one year grant (at FUB or UNIKL) plus one year tuition fee reduction (at BTH); Type E grant is a tuition fee reduction (at BTH only).

Grant may also be taxed depending on each University/country regulation.



## 8. OTHER SCHOLARSHIPS

**Depending on the financial availability EMSE partners may announce other scholarships. Check periodically the page:** [http://www.inf.unibz.it/emse-dokuwiki/emse/other\\_grant](http://www.inf.unibz.it/emse-dokuwiki/emse/other_grant)

**Other sources of funding around the world are available at the web page:**  
[http://www.inf.unibz.it/emse-dokuwiki/emse/other\\_grant](http://www.inf.unibz.it/emse-dokuwiki/emse/other_grant)

## 9. SELF-PAYING STUDENTS

**We are happy to consider students with other sources of funding, for a limited number of places. In this case, students will have to pay the tuition fee:**

- € 4270/year for NON-EU students while staying at FUB and UNIKL and 100,000 SEK/year plus € 427/year (about € 11,827) while staying at BTH
- € 2,720/year for EU Students.

Tuition fees cover any participation cost to EMSE.

## 10. 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 enrolment deposit payment.

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 cannot apply to more than one type of grant.

Students are ranked by learning paths. Students in the reserve list can be offered to another type of grant if available.

## 11. HOW TO ENROL

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

**To secure their participation, admitted students must pay the tuition fee first instalment: € 427 for NON-EU and € 272 for EU no later than**

**May 5<sup>th</sup>, 2014**

Later payments do not ensure a place in program.

## 12. IMPORTANT DATES

- **February 11<sup>th</sup>, 2014 submission opening date for EU and NON-EU applicants**
- March 30<sup>th</sup>, 2014 — submission closing date for NON-EU and EU applicants
- April 15<sup>th</sup>, 2014 — notification of admission and scholarships award
- April 20<sup>th</sup>, 2014 — confirmation of participation from admitted students
- April 21<sup>st</sup>, 2014 — notification to the students of the reserve list
- April 28<sup>th</sup>, 2014 — confirmation of participation from admitted students of the reserve list
- May 5<sup>th</sup>, 2014 — payment of the first instalment from admitted students
- **June 2<sup>nd</sup>, 2014 — submission opening date for EU and NON-EU applicants with at least 12 consecutive months in EU**
- July 31<sup>st</sup>, 2014 — submission closing date for EU and NON-EU applicants with at least twelve consecutive months in EU

## 13. CONTACTS

EMSE secretariat

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