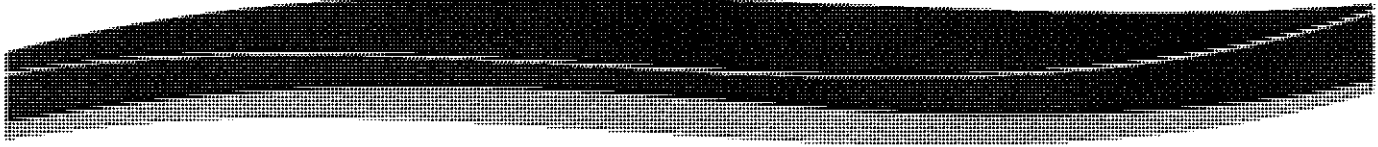


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ERASMUS MUNDUS



Application Form

ERASMUS MUNDUS 2011 Call for proposals

Joint Master Courses / Joint Doctorate Programmes

Before you begin completing this eform:

- Try the test eForm. This is a very brief eForm to help you become familiar with how the fields and tables work and to test that your software and internet connection allow an application to be submitted.
- Check that you have the latest available version of the eForm. In the event of a significant eForm problem arising, the Agency may decide to publish an updated i.e. corrected version of the eForm. Please check to see if a later version is available and to see details of any problems that have arisen and their impact.

Click on the following link to go to the webpage to try the test eForm and to check for the latest version of the eForm:

http://eacea.ec.europa.eu/cforms/index_en.php

| | |
|---|---|
| Programme | ERASMUS MUNDUS |
| Sub-programme *: | Action 1 Erasmus Mundus Joint Programmes |
| Programme guide / Call for proposals | EACEA 41/10 |
| Action *: | EMMC |
| Sub-action *: | N/A |
| Deadline for submission | 29/04/2011 12:00 midday CET |
| Project title *: | European Masters Course in Software Engineering |
| Project acronym *: | EMCSE |
| Language used to complete the form *: | English |

YOU MUST COMPLETE ALL FIELDS ON THIS FIRST PAGE BEFORE COMPLETING ANY OTHER PARTS OF THE FORM. SELECTIONS YOU MAKE ON THIS FIRST PAGE, DICTATE THE APPEARANCE AND BEHAVIOUR OF THE REST OF THE FORM.

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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Part A. Identification of the applicant and if applicable other organisation(s) participating in the project.

Parts A and B must be completed separately by each organisation participating in the project.

A.1 Organisation

| | | |
|---|--|----------------|
| Partner number | P1 | |
| Role in the application | Applicant Organisation | |
| Full name of the organisation * : | Libera Università di Bolzano – Freie Universität Bozen | |
| Full name of the organisation in latin characters | Libera Università di Bolzano – Freie Universität Bozen | |
| Acronym * : | FUB | |
| Erasmus University Charter number | 81286-IC-1-2007-1-IT-ERASMUS-EUC-1 | |
| Department / Faculty | Faculty of Computer Science | |
| Registered address | | |
| Street * : | | Number |
| Piazza Domenicani | | 3 |
| Post code * : | Town * : | |
| I - 39100 | Bozen-Bolzano | |
| Country * : | Region * : | |
| ITALY | Provincia Autonoma Bolzano/Bozen | |
| Internet address: | http://www.unibz.it | |
| Telephone 1 * : | Telephone 2 | Fax |
| 0039 0471 0 16234 | 00390471016170 | 00390471016009 |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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ERASMUS MUNDUS

A.2 Person responsible for the management of the application (contact person)

| | | |
|----------|----------------|---------------|
| Title *: | Family name *: | First name *: |
| Prof. | Russo | Barbara |

| | |
|-----------------------------|------------------------|
| Role in the organisation *: | E-mail address *: |
| Associate Professor | barbara.russo@unibz.it |

Check this box if the address is different from the address provided in section A.1

Address

| | |
|-------------------|--------|
| Street *: | Number |
| Piazza Domenicani | 3 |

| | |
|--------------|---------------|
| Post code *: | Town *: |
| I - 39100 | Bozen-Bolzano |

| | |
|------------|----------------------------------|
| Country *: | Region *: |
| ITALY | Provincia Autonoma Bolzano/Bozen |

| | | |
|-------------------|-------------|----------------|
| Telephone 1 *: | Telephone 2 | Fax |
| 0039 0471 0 16170 | | 00390471016009 |

Check this box if the legal representative is different from the person responsible for the management

A.3 Person authorised to represent the organisation in legally binding agreements (legal representative)

| | | |
|----------|----------------|---------------|
| Title *: | Family name *: | First name *: |
| Prof. | Bergmeister | Konrad |

E-mail *:
Konrad.Bergmeister@unibz.it

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC





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ERASMUS MUNDUS

Role in the organisation * :

President

Check this box if the address is different from the address provided in section A.1



Address:

Street * :

Number

Piazza Università

1

Post code * :

Town * :

I - 39100

Bozen - Bolzano

Country * :

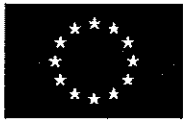
Region * :

ITALY

Provincia Autonoma Bolzano/Bozen

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



Part B. Organisation and activities

B.1 Structure

Status * : Public

Type of organisation University or higher education institution (tertiary level)

B.2 Aims and activities of the organisation*

Please provide a short presentation of your organisation (key activities, affiliations etc.) relating to the domain covered by the project. (Max. 1000 characters)

The Free University of Bozen - Bolzano is an international and multicultural institution situated in the trilingual (German, Italian, Ladin) autonomous province of Bolzano, Italy. The Faculty of Computer Science was established in 2001 with the mission to educate new generations of professionals and researchers in methods and practice of computer science and promote research in synergy industry. The academic staff is international. Research activities are organized in three research centres with focus on software systems and applications. In particular, the Centre for Applied Software Engineering has participated to several research projects in applied Software Engineering. Among them, it has been coordinator of COSPA project, STREP, FP6 (2,4 Mio EUR) and NAME project, NoE, FP5. The Faculty runs three EMMCs (Erasmus Mundus), a full Doctoral program since 2004 and two European Doctorates. The Faculty was placed first in the most recent ministerial evaluation of research by the CIVR.

Please describe the role of the organisation in the project. (Max. 1000 characters)

The Faculty of Computer Science is the coordinator of the EMCSE consortium. In addition to common activities of the EMCSE partners (local management of students and student curricula), FUB coordinates students admission and selection in respect of the consortium / European regulations. It is responsible to maintain and managing tools for recruitment and advertisement of the course. It manages scholarships and students / scholars payments. It will be responsible to report / draw overall statistics/information on EMCSE to consortium and EACEA. It provides a service of help desk / assistance for the administrative coordination through a network of offices. It will be the reference point for incoming and outgoing students, monitoring the achievement of the students' competence and the students' satisfaction at consortium level. It will host major EMCSE meetings, in particular the degree ceremony.

B.3 Other EU grants

Please list the projects for which the organisation, or the department responsible for the management of this application, has received financial support from the EU Programme during the last three years.

| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project | |
|---------------------------|------------------|--|--|---|
| IST 6th Framework Program | 034763 | Free University of Bozen/Bolzano (Faculty of Computer Science) | QUALIPSO : Quality platform for open source software | X |

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project | |
|---------------------------|------------------|--|---|---|
| 7th Framework Programme | 216446 | Free University of Bozen/Bolzano (Faculty of Computer Science) | NEXOF-RA : NESSI Open Framework - Reference Architecture | X |
| EACEA EMMC | 2007-0065 | Free University of Bozen/Bolzano (Faculty of Computer Science) | European Master's Course in Software Engineering (EMCSE) | X |
| ICT Call 5 FP7-ICT-2009-5 | 257410 | Free University of Bozen/Bolzano (Faculty of Computer Science) | TERENCE - An Adaptive Learning System for Reasoning about Stories with Poor Comprehenders and their Educators | X |
| ICT Call 5 FP7-ICT-2009-5 | 257593 | Free University of Bozen/Bolzano (Faculty of Computer Science) | ACSI - Artifact-Centric Service Interoperation - STREP | X |
| ICT Call 3 FP7-ICT-2008-3 | 231875 | Free University of Bozen/Bolzano (Faculty of Computer Science) | ONTORULES - ONTOlogies meet business RULEs | X |
| ICT Call 3 FP7-PEOPLE | 24761 | Free University of Bozen/Bolzano (Faculty of Computer Science) | NET2 - Network for Enabling Networked Knowledge (EU Marie Curie) | X |
| Add a project | | | | |

Please list other grant applications submitted by your organisation, or the department responsible, for this project proposal. For each grant application, please mention the EU Programme concerned and the amount requested.

| Programme concerned | Amount requested |
|----------------------|------------------|
| Add a project | |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



Part A. Identification of the applicant and if applicable other organisation(s) participating in the project.

Parts A and B must be completed separately by each organisation participating in the project.

A.1 Organisation



Partner number P2

Role in the application *: Partner

Full name of the organisation *: Technische Universität Kaiserslautern

Full name of the organisation in latin characters Technische Universität Kaiserslautern

Acronym *: UKL

Erasmus University Charter number 29778 (D KAISERS 01)

Department / Faculty Fachbereich Informatik (Computer Sci.)

Registered address

Street *: P.O. Box 3049 Gottlieb-Daimler-Str. Number 48

Post code *: D-67653 Town *: Kaiserslautern

Country *: GERMANY Region *: Rheinessen-Pfalz

Internet address: http://www.uni-kl.de

Telephone 1 *: +49 (0631) 205-2554 Telephone 2 _____ Fax +49 (0631) 205-2645



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ERASMUS MUNDUS

A.2 Person responsible for the management of the application (contact person)

| | | |
|-----------|----------------|---------------|
| Title *: | Family name *: | First name *: |
| Professor | Rombach | H. Dieter |

| | |
|-----------------------------|------------------------------|
| Role in the organisation *: | E-mail address *: |
| Professor | rombach@informatik.uni-kl.de |

Check this box if the address is different from the address provided in section A.1

Address

| | |
|-------------------------------------|--------|
| Street *: | Number |
| P.O. Box 3049 Gottlieb-Daimler-Str. | 48 |

| | |
|--------------|----------------|
| Post code *: | Town *: |
| D-67653 | Kaiserslautern |

| | |
|------------|-------------------|
| Country *: | Region *: |
| GERMANY | Rheinhessen-Pfalz |

| | | |
|--------------------|---------------------|--------------------|
| Telephone 1 *: | Telephone 2 | Fax |
| +49 (631) 205-3341 | +49 (631) 6800 1000 | +49 (631) 205-3331 |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC





Part B. Organisation and activities

B.1 Structure

Status * : Public

Type of organisation * : University or higher education institution (tertiary level)

B.2 Aims and activities of the organisation*

Please provide a short presentation of your organisation (key activities, affiliations etc.) relating to the domain covered by the project. (Max. 1000 characters)

The University of Kaiserslautern (UKL) is consists of 10 departments offering 85 study programmes to around 12,000 students. UKL has strong cooperation with the two top software engineering research institutes, The Fraunhofer Institute for Experimental Software Engineering and the Max Planck Institute for Software Systems. UKL is also part of the largest Software-clusters in Europe. Federal Ministry of Education and Research (BMBF), Germany is supporting the software cluster projects with funds up to 40 million for 5 years. Three leading computer science research centers (DFKI, Fraunhofer, FZI), TU Darmstadt, University of Kaiserslautern, the Karlsruhe Institute of Technology and the University of Saarland are bringing their expertise in the cluster. Besides, the largest German corporate software manufacturers (IDS Scheer AG, SAP AG and Software AG) are represented in the software cluster in addition to more than 350 small and medium sized companies from the corporate software sector.

Please describe the role of the organisation in the project. (Max. 1000 characters)

University of Kaiserslautern (UKL) will participate as a partner member of the consortium. UKL will offer a wide range of software engineering courses to the students from its already developed Masters Course curriculum which have been taught since 1975 and have undergone continuous improvements. The consortium can not only exploit the existing Master-level software engineering courses offered by UKL but also will be able to offer practical-oriented software engineering courses because of UKL's strong ties in teaching and research with the Fraunhofer Institute for Experimental Software Engineering (IESE) (one of the best European SE research centres). IESE will also be able to offer software engineering project and thesis for the students from practical context. Prof. Dieter Rombach, one of the coordinator of the consortium, is the Executive Director of the Fraunhofer IESE.

B.3 Other EU grants

Please list the projects for which the organisation, or the department responsible for the management of this application, has received financial support from the EU Programme during the last three years.

| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project | |
|-------------------------|------------------|---------------------------------------|--|---|
| EACEA EMMC | 2007-0065 | Technische Universität Kaiserslautern | European Master's Course in Software Engineering (EMCSE) | X |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project | |
|-------------------------|--------------------------------------|---------------------------------------|--|---|
| 7th Framework Programme | EU HATS GA No 231620 | Technische Universität Kaiserslautern | Highly Adaptable and Trustworthy Software using Formal Methods | X |
| EACEA EMMC | 134026-LLP-1-2007-1-ES-ERASMUS-ECDSP | Technische Universität Kaiserslautern | European Master of Industrial Mathematics (ECMI) | X |
| 7th Framework Programme | 216366 | Technische Universität Kaiserslautern | Anticipating the Network of the future - from theory to design (EURO-NF) | X |
| 7th Framework Programme | 214373 | Technische Universität Kaiserslautern | ArtistDesign – European Network of Excellence on Embedded Systems Design | X |
| EACEA EMMC | 2010-2432/001-001-EMMC | Technische Universität Kaiserslautern | European Master's Course in Embedded Computing Systems | X |
| Add a project | | | | |

Please list other grant applications submitted by your organisation, or the department responsible, for this project proposal. For each grant application, please mention the EU Programme concerned and the amount requested.

| Programme concerned | Amount requested |
|----------------------|------------------|
| Add a project | |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC





Part A. Identification of the applicant and if applicable other organisation(s) participating in the project.

Parts A and B must be completed separately by each organisation participating in the project.

A.1 Organisation

| | | |
|---|-------------------------------------|-------------------------------------|
| Partner number | P3 | <input checked="" type="checkbox"/> |
| Role in the application * : | Partner | |
| Full name of the organisation * : | Blekinge Tekniska Högskola | |
| Full name of the organisation in latin characters | Blekinge Tekniska Högskola | |
| Acronym * : | BTH | |
| Erasmus University Charter number | 29429-IC-1-2002-1-SE- ERASMUS-EUC-1 | |
| Department / Faculty | School of Computing | |
| Registered address | | |
| Street * : | Valhallavägen | Number 1 |
| Post code * : | SE-371 79 | Town * : Karlskrona |
| Country * : | SWEDEN | Region * : Sydsverige |
| Internet address: | www.bth.se | |
| Telephone 1 * : | Telephone 2 | Fax |
| +46 455 - 38 50 00 | | +46 455 - 38 50 57 |



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ERASMUS MUNDUS

A.2 Person responsible for the management of the application (contact person)

| | | |
|-----------|-----------------|----------------|
| Title * : | Family name * : | First name * : |
| Dr. | Smite | Darja |

| | |
|------------------------------|--------------------|
| Role in the organisation * : | E-mail address * : |
| Assistant Professor | Darja.Smite@bth.se |

Check this box if the address is different from the address provided in section A.1

Address

| | |
|---------------|--------|
| Street * : | Number |
| Valhallavägen | 1 |

| | |
|---------------|------------|
| Post code * : | Town * : |
| SE-371 79 | Karlskrona |

| | |
|-------------|------------|
| Country * : | Region * : |
| SWEDEN | Sydsverige |

| | | |
|-----------------|-------------|-----|
| Telephone 1 * : | Telephone 2 | Fax |
| + 46 455-385719 | | |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC





Part B. Organisation and activities

B.1 Structure

Status * : Public

Type of organisation * : University or higher education institution (tertiary level)

B.2 Aims and activities of the organisation*

Please provide a short presentation of your organisation (key activities, affiliations etc.) relating to the domain covered by the project. (Max. 1000 characters)

Blekinge Institute of Technology (BTH) was established in 1989 and is located in the county of Blekinge in south-east Sweden. It is the most distinctly profiled institute in Sweden, thanks to its strong emphasis on applied information technology, IT and sustainable development in industry and society. The institute BTH is one of three independent institutes of technology in Sweden and in 1999 it was granted university status in technology. In addition to the large number of nationalities represented at faculty level, foreign students from all over the world give BTH a truly international environment. Teaching and learning at BTH can be highly motivational for students who are interested in research. The institute is ranked as number five among the top institutions in systems and software engineering in the world by the Journal of Systems and Software based on publications in 2003-2007, and as number six for the period 2004-2008.

Please describe the role of the organisation in the project. (Max. 1000 characters)

BTH provides a prominent teaching and learning environment and opportunities to students who choose to come for their studies to Sweden. The institute has strong relationships with many Swedish software companies that guarantee opportunities to deal with industry's real problems. The courses provide a broad basis and cover several advanced topics, which the software engineering industry currently requires. The study material is designed to present a blend of state-of-practice and state-of-the-art. This is further strengthened by the fact that the university hosts active research within the subject areas. The programme has strong ties to the Software Engineering research group, one of the highly ranked research groups in the world in the subject, and provides many opportunities for students interested in research. As a result, many master theses are developed in close collaboration with industry and the results are published in international research conferences and journals.

B.3 Other EU grants

Please list the projects for which the organisation, or the department responsible for the management of this application, has received financial support from the EU Programme during the last three years.

| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project |
|-------------------------|------------------|--------------------------|----------------------|
|-------------------------|------------------|--------------------------|----------------------|



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ERASMUS MUNDUS

| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project | |
|-------------------------|--------------------------------|----------------------------|--|---|
| EACEA EMMC | 2007-0065 | Blekinge Tekniska Högskola | European Master's Course in Software Engineering (EMCSE) | X |
| 6th Framework Programme | TREN/07/FP6EN/S07.73199/038576 | Blekinge Tekniska Högskola | Integral | X |
| 6th Framework Programme | TREN/06/FP6TR/S07.60148 | Blekinge Tekniska Högskola | Freightwise | X |
| 7th Framework Programme | 224024 | Blekinge Tekniska Högskola | Perimeter | X |
| 7th Framework Programme | 231830 | Blekinge Tekniska Högskola | xDelia | X |
| FP7 Thematic Network | 238868 | Blekinge Tekniska Högskola | SEESGEN-ICT | X |
| Add a project | | | | |

Please list other grant applications submitted by your organisation, or the department responsible, for this project proposal. For each grant application, please mention the EU Programme concerned and the amount requested.

| Programme concerned | Amount requested |
|----------------------|------------------|
| Add a project | |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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ERASMUS MUNDUS

Part A. Identification of the applicant and if applicable other organisation(s) participating in the project.

Parts A and B must be completed separately by each organisation participating in the project.

A.1 Organisation

Partner number

P4



Role in the application * :

Associated partner

Full name of the organisation * :

Fondazione Libera Universita' di Bolzano

Full name of the organisation in latin characters

Acronym * :

Fondazione Libera Universita' di Bolzano

Erasmus University Charter number

Department / Faculty

Registered address

Street * :

Number

Piazzetta Franz Innerhofer

8

Post code * :

Town * :

39100

Bolzano

Country * :

Region * :

ITALY

Provincia Autonoma Bolzano/Bozen

Internet address:

Telephone 1 * :

Telephone 2

Fax

+390471/010100

+390471/010109

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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ERASMUS MUNDUS

A.2 Person responsible for the management of the application (contact person)

| | | |
|----------|----------------|---------------|
| Title *: | Family name *: | First name *: |
| Avv. | Egger | Hanns |

| | |
|-----------------------------|----------------------|
| Role in the organisation *: | E-mail address *: |
| President | hanns.egger@unibz.it |

Check this box if the address is different from the address provided in section A.1

Address

| | |
|----------------------------|--------|
| Street *: | Number |
| Piazzetta Franz Innerhofer | 8 |

| | |
|--------------|---------|
| Post code *: | Town *: |
| 39100 | Bolzano |

| | |
|------------|----------------------------------|
| Country *: | Region *: |
| ITALY | Provincia Autonoma Bolzano/Bozen |

| | | |
|----------------|-------------|-----|
| Telephone 1 *: | Telephone 2 | Fax |
| +390471/010100 | | |

Submission number:
520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



Part B. Organisation and activities

B.1 Structure

Status * : Private

Type of organisation * : Other

B.2 Aims and activities of the organisation*

Please provide a short presentation of your organisation (key activities, affiliations etc.) relating to the domain covered by the project. (Max. 1000 characters)

The Fondazione Libera Università di Bolzano, Italy, is a non-profit body of the Libera Università di Bolzano. Its goal is to raise funds for the acquisition of goods and services for the Free University of Bolzano-Bozen and to promote activities in support of teaching and research in science and technology. In particular, it performs the following activities:

- promoting initiatives and activities of students and teachers;
- supporting and managing scientific, cultural and educational activities, including funding of teaching convention or allocation of contributions and grants to researchers studying or graduates for research and training;
- supporting or implementing projects consistent with the purposes of the Fondazione;
- fund raising from private and public organizations according to the objectives of the Fondazione;
- participating in or promoting the establishment of consortia and associations that share the same objectives.

Please describe the role of the organisation in the project. (Max. 1000 characters)

The Foundation will be an associated partner of the consortium and it will contribute to rise funds and quality assurance of the programme. It will be part of the task force compounded by the academic partners (FUB, BTH, and UKL) and the associate partners (Foundation, Engineering, Fraunhofer Institute). It is currently contributing to EMCSE with 4 grants of about 8000 EUR each for 2012/2013.

B.3 Other EU grants

Please list the projects for which the organisation, or the department responsible for the management of this application, has received financial support from the EU Programme during the last three years.

| Programme or initiative | Reference number | Beneficiary Organisation | Title of the Project |
|-------------------------|------------------|--------------------------|----------------------|
| Add a project | | | |



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Please list other grant applications submitted by your organisation, or the department responsible, for this project proposal. For each grant application, please mention the EU Programme concerned and the amount requested.

| Programme concerned | Amount requested |
|---------------------|------------------|
| Add a project | |

Number of organisations to add *: 1

Add organisation(s)

List of partner organisations

| Partner no | Role | Organisation Name | City | Country |
|------------|------------------------|--|----------------|---------|
| P1 | Applicant Organisation | Libera Università di Bolzano – Freie Universität Bozen | Bozen-Bolzano | ITALY |
| P2 | Partner | Technische Universität Kaiserslautern | Kaiserslautern | GERMANY |
| P3 | Partner | Blekinge Tekniska Högskola | Karlskrona | SWEDEN |
| P4 | Associated partner | Fondazione Libera Università' di Bolzano | Bolzano | ITALY |

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



Part C. Description of the project

C.1 STATISTICAL DATA

The EMMC joint programme corresponds to the equivalent of * : 120 ECTS

Is the proposal a continuation of an existing EMMC ? * : Yes

Please specify :

EMMC original title * : European Masters Course in Software Engineering

EMMC original acronym * : EMCSE

EM Framework Partnership Agreement number 2007-0065

Has this application been the subject of a proposal under previous EM calls for proposals? * : No

Does the joint programme include an internship/placement period? * : No

Does the joint programme include study period(s) outside Europe? * : No

Joint Programme Duration and Mobility :

The joint programme will start in month * : Aug of year "n".

and will end in month * : Oct of year "n + " * : 2

During their EMMC period, the students will study in at least * : 2 different countries.

The EMMC tuition language(s) will be * :

Language to add



The EMMC student participation costs PER SEMESTER will be :

| | |
|---|--|
| <u>1 365€</u> | <u>2 140€</u> |
| per semester (30 ECTS) for European students* | per semester (30 ECTS) for Third-country students* |

Estimated number of students planned to be enrolled PER EDITION of the Joint programme
applies to all students, with or without EM scholarship

| | |
|-----------------|----------------------------|
| EU Students * : | Third Country Students * : |
| <u>25</u> | <u>20</u> |



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ERASMUS MUNDUS

C.2 THEMATIC FIELD

Main Area :

Level 1 * :

Science, Mathematics and Computing

Code

4

Level 2

Computer science

Code

481

Clear Main Area

Second Area :

Level 1

Engineering, Manufacturing and Construction

Code

5

Level 2

Manufacturing and processing (other)

Code

549

Clear Second Area

Third Area :

Level 1

Code

Level 2

Code

Clear Third Area

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



European Commission



C.3 SUMMARY DESCRIPTION OF THE PROJECT * (Max. 3000 characters)

The objective of our "European Masters Course in Software Engineering" (EMCSE) is to promote the creation of software engineers who meet the requirements of international software practice today, offering them an inter-European study programme based on the coordination of the strengths of each of the partner institutions, which, also, have a sound reputation in the field. These partner institutions are:

Blekinge Tekniska Högskola, Sweden

Teknische Universität Kaiserslautern, Germany

Free University of Bolzano-Bozen, Italy (coordinator)

EMCSE is a two-year programme (120 ECTS) completely taught in English. The EMCSE course is built on six mobility patterns defined on annual exchange. Students take EMCSE at any two institutions of the consortium (50% of ECTS in each institution).

The EMCSE programme is based on core areas, specificities, and elective courses. Topics of core areas cover foundations in SE and are taught in any mobility pattern of the programme: Software Process Management, Verification and Validation, Software Design, and Requirements Engineering. Specificities are topics peculiar to a student mobility pattern that reflect the local teaching offer and research. All partners offer a research methods course to prepare students to elective activities. Elective activities consist of a project (7,5-8 ECTS) and a master thesis of 30 ECTS. Both are autonomous and supervised activities. Master thesis is co-supervised by two teachers of the partners the student has visited. Students that successfully complete the program get a joint degree from the two universities that have visited. The course provides 10-14 grants for European and Non-European EMCSE students provided by the partners (about 8,000 EUR per student). Partners have agreed on Lifelong Learning Program exchange such that students can get the Erasmus student status and can have a monthly support when they move to the second university. Other local grants are available.

A successful student from the EMCSE programme will be able to:

Have solid knowledge on foundations, methods, and techniques of requirements analysis and design, software process development, software design, and verification and validation.

Employ the scientific methods of investigation in SE; in particular understanding and using mathematical instruments that support SE and its practice.

Understand and apply principles, structures, and use of SE.

Have basic knowledge of public, corporate and professional culture and society.

Have practice in various software applicative sectors in the socio-economic context including safety critical ones.

Be able to work in large autonomy also managing projects and infrastructures.

Have a command of the SE technical knowledge and skills needed to organize and control software project team work.

Be able to reconcile conflicting project objectives providing reasonable cost and time information.

Overcome the challenges of global software development and internationalization.

Part D. Technical Capacity

D.1 Consortium experience of the area of joint programmes and the specific discipline(s) of the project

Provide a list of projects/activities implemented by the consortium organisations in relation with the proposal

| Title | Duration | Funding | Programme | Partners involved | |
|---|-------------------|---------|---|-------------------|---|
| EMCSE - European Masters Course in Software Engineering | 5 years | | Erasmus Mundus | FUB, BTH, UKL | X |
| EMCL - European Master's Program in Computational Logic | 7 years (renewed) | | Erasmus mundus | FUB | X |
| EMLCT - European Masters Program in Language and Communication Techniques | 5 years | | Erasmus Mundus | FUB | X |
| EMECS - European Master's Program in Embedded Computing Systems | 5 years | | Erasmus Mundus | UKL | X |
| BIT Joint Degree in Information Technolog (University of Innsbruck, University of Trento, and FUB) | illimited | | University bilateral agreements (www.unibz.it/international/programmes/bit) | FUB | X |
| European Master of Industrial Mathematics (ECMI) | 5years | | Erasmus Mundus | UKL | X |

Add Project /Activity

D.2 Skills and expertise of key staff involved in the project

Summary of the relevant skills and experience, including where relevant a list of the (main) publications related to the domain of the project (Maximum 750 characters). Maximum 3 CV's per partner institution.



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ERASMUS MUNDUS

Organisation number

P1

Organisation name

Libera Università di Bolzano – Freie Universität Bozen

| Name of Key Person* | Summary of relevant skills and experience* | |
|---------------------|--|---|
| Barbara Russo | Dr. Barbara Russo is Associate Professor at FUB and director of the Master Course in Computer Science. She is the local coordinator of the EMMC EMCSE(2007-2012). Formerly, she visited the Max-Planck Institut für Mathematik, Bonn and the University of Liverpool, UK as Marie Curie Fellow. Her last publications include Journal of Empirical Software Engineering, and Journal of Software Systems. Her books include Adopting Open Source Software, A Practical Guide (with Fitzgerald, Kesan, Shaikh and Succi), MIT Press, 2011. She participated in EU projects like NAME FP5, COSPA FP6, CALIBRE FP6. Her research interests are in the field of empirical software engineering and software measurement with focus on Open Source software and agile methods | X |
| Giancarlo Succi | Giancarlo Succi is Professor with Tenure at FUB where he directs the Center for Applied Software Engineering and is Dean of the Faculty of Computer Science. Before joining the Free University of Bolzano-Bozen, he has been Professor with Tenure at the University of Alberta. His research interest involve multiple areas of software engineering, including open source development, agile methodologies, experimental software engineering, software engineering over the Internet, and software product lines and software reuse. Giancarlo Succi is a Fulbright Scholar. He is author of more than 150 papers published in international conferences and journals. Prof. Succi is member of program committees of conferences and co-organizer of conferences. | X |
| Pekka Abrahamsson | Dr. Pekka Abrahamsson is a professor of computer science at the Free University of Bozen/Bolzano. Previously he was professor of Computer Science at the University of Helsinki. He has researched agile software development since 2002 and published actively in the area. He received the Nokia foundation award in 2007 for his achievements as a software researcher. His 22MEUR AGILE-ITEA project was awarded a ITEA Achievement Award (Silver) for outstanding industrial and scientific impact. He is currently the academic coordinator of a 60MEUR Cloud Software research program. He is in the editorial board of Software Process Improvement and Practice and in the advisory board of IEEE Software. He is the member of ACM and IEEE. | X |

Submission number:

520078-EA1-1-2011-1-IT-ERA MUNDUS-EMMC



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ERASMUS MUNDUS

Organisation number

P2

Organisation name

Technische Universität Kaiserslautern

| Name of Key Person* | Summary of relevant skills and experience* | |
|---------------------|---|---|
| H. Dieter Rombach | Prof. H. Dieter Rombach: Chair for Software Engineering at the University of Kaiserslautern and Executive Director of the Fraunhofer Institute for Experimental Software Engineering in Kaiserslautern. Previously, He was Professor of Computer Science at the University of Maryland, and also Project Manager at NASA/Goddard Space Flight Center. His main research topics can be found in the area of "Software Engineering", especially in methods for developing software with predictable quality, in quantitative methods for measuring and assessing software products and software processes, in languages and methods for developing and using explicit software process models, in process-based software development environments as well as in software reuse. | X |
| Peter Liggesmeyer | Prof. Peter Liggesmeyer: Prof. Dr.-Ing. Peter Liggesmeyer is a Full Professor at the University of Kaiserslautern, Germany (Department of Computer Science). He holds a chair in software engineering, and is the Scientific Director of the Fraunhofer Institute for Experimental Software Engineering (IESE). His research interests are in software engineering for embedded systems, software quality, system safety and reliability, and visualization of software systems. Prior to his current position, he was a Full professor at the Hasso-Plattner-Institute for Software Systems Engineering at the University of Potsdam, Germany (2000-2004). From 1993 to 2000 he was a project manager at Siemens Corporate Technology, Munich. | X |

Add a Staff Member

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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Organisation number

P3

Organisation name

Blekinge Tekniska Högskola

| Name of Key Person* | Summary of relevant skills and experience* | |
|---------------------|--|---|
| Darja Smite | Darja Smite is an assistant professor of software engineering at Blekinge Institute of Technology, Sweden and an associate professor at University of Latvia. Her research interests include global software engineering with the emphasis on improving distributed team efficiency, requirements engineering, team coordination and software process improvement. Darja Smite received a PhD in Computer Science from University of Latvia in 2007 and became an active member of program committees of many research events devoted to Software Engineering. She is an author of over 30 research publications, has co-edited two books and currently leads a research project in collaboration with two software companies in Sweden. | X |
| Claes Wohlin | Claes Wohlin is a professor of software engineering at Blekinge Institute of Technology, Sweden. He has previously held professor chairs at the universities in Lund and Linköping. His research interests include empirical methods, software management and software process improvement. Wohlin received a PhD in communication systems from Lund University. He is Editor-in-Chief of Information and Software Technology and member of three other journal editorial boards. He has been a visiting professor at Chalmers University of Technology and since January 1, 2009 he is a professorial visiting fellow at University of New South Wales, Sydney in Australia. Since 2011, he is a member of the Royal Swedish Academy of Engineering Sciences. | X |
| Richard Torkar | Richard Torkar received his PhD degree in software engineering from Blekinge Institute of Technology, Sweden. He is currently an associate professor in software engineering at Blekinge Institute of Technology. He performs empirical research in software engineering, and software testing and reliability. His research focuses on applying different combinations of search-based strategies to software engineering activities. The research is mainly done in collaboration with telecom companies and the space industry. He is currently the programme manager for two M.Sc. programmes while, in addition, he runs one research project, one research collaboration network and the Swedish Research School in Verification and Validation (http://www.swell.se). | X |

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC





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PART E. Degree(s) awarded

The joint programme will result in the award of a* :

- Double degree (i.e. more than one official degree)
- Multiple degree (i.e. more than two official degrees)
- Joint degree i.e. a single diploma officially recognised in at least two of the European consortium countries

Organisation number **P1** Name of the Degree Awarding Organisation
Libera Università di Bolzano – Freie Universität Bozen

| Official name of the degree in | | Type* | Recognition status | | Function of the degree signatory |
|---|--------------------------------------|--------------|----------------------|---|----------------------------------|
| National language* | English | | Already recognised?* | Expected recognition date OR validity end date (/ next review date) if applicable | |
| Joint Master in Software Engineering (Laurea magistrale in Informatica) | Joint Master in Software Engineering | Joint degree | Yes | unlimited duration | Rector |

X

Add a Degree

Organisation number **P2** Name of the Degree Awarding Organisation
Technische Universität Kaiserslautern

| Official name of the degree in | | Type* | Recognition status | | Function of the degree signatory |
|--------------------------------|-------------------|-----------------|----------------------|---|----------------------------------|
| National language* | English | | Already recognised?* | Expected recognition date OR validity end date (/ next review date) if applicable | |
| Master of Science | Master of Science | National degree | Yes | unlimited duration | Rector |

X

Add a Degree

Organisation number **P3** Name of the Degree Awarding Organisation
Blekinge Tekniska Högskola

| Official name of the degree in | Type* | Recognition status |
|--------------------------------|-------|--------------------|
|--------------------------------|-------|--------------------|

Submission number: 520078-EM-1-2011-1-IT-ERA MUNDUS-EMAC



| <i>National language*</i> | <i>English</i> | | <i>Already recognised?*</i> | <i>Expected recognition date OR validity end date (/ next review date) if applicable</i> | <i>Function of the degree signatory</i> |
|---|--------------------------------------|--------------|-----------------------------|--|---|
| Joint Master in Software Engineering (Master i Programvaruteknik) | Joint Master in Software Engineering | Joint degree | Yes | unlimited duration | Rector |

X

Add a Degree



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Attachments

Declaration of Honour. JPEG document (jpeg, jpg) or PDF document(pdf).

Document: declaration_hon_a1-firmata.pdf

Award Criteria. Word document (doc,docx), PDF document (pdf) or RTF document (rtf).(maximum 25 pages - Times New Roman - Font 11)

Document: AwardCriteria_Final.pdf

Submission number:

520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC



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520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC

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520078-EM-1-2011-1-IT-ERA MUNDUS-EMMC