Asunto: errores en la denominación del programa de doctorado Erasmus Mundus **SEED - Simulation in Engineering and Entrepreneurship Development**

En la notificación que hemos recibido en respuesta a la solicitud de verificación del programa referenciado en el asunto se expone lo siguiente: *El Sello Erasmus corresponde al Doctorado in Computational Mechanics. Deben aportar el documento correcto.*

El motivo de esta comunicación es justificar que el documento que se aportó era el correcto, aunque resulta lógico que no parezca así, dado que efectivamente este programa ha tenido dos denominaciones a lo largo del proceso de implantación.

En la fase de propuesta se utilizaron indistintamente los nombres de *International Doctoral Program in Computational Mechanics* y *SEED*, tal como refleja la carta de concesión del sello Erasmus Mundus que se anexó al aplicativo de verificación: aunque la portada del documento se refiere al *International Doctoral Program in Computational Mechanics*, más adelante aparecen las siglas SEED para referirse a este doctorado, concretamente al final del apartado B.2 (página 4) y en el titulado "*Other comments on the proposal*" (página 5).

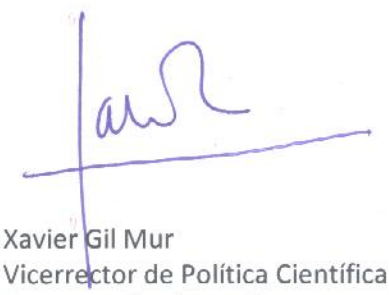
En febrero de 2013, es decir, unos meses después de la expedición de la carta de concesión del sello Erasmus Mundus, se estableció y firmó el convenio del programa, donde ya se consolidó la que es su denominación definitiva: este documento, que también se anexó al aplicativo de verificación, identifica el doctorado como *Simulación en ingeniería y desarrollo de iniciativas emprendedoras – SEED, Simulation in Engineering and Entrepreneurship Development – SEED* en la versión original.

Asimismo, SEED es la denominación que se utiliza en la página web del programa http://www.cimne.com/emjd-seed/ y en la ficha del mismo que se puede consultar en la página web de la *Education, Audiovisual and Culture Executive Agency* (EACEA) http://eacea.ec.europa.eu/erasmus_mundus/results_compendia/documents/projects/action_1_joint_doctorates/seed_2013_0038.pdf, donde no figura ningún *International Doctoral Program in Computational Mechanics.*

Por todo ello, declaro que el programa al que se refiere la carta de concesión del sello Erasmus fechada en julio de 2012 con el nombre provisional de *International Doctoral Program in Computational Mechanics* es el que finalmente se solicita verificar como *Simulation in Engineering and Entrepreneurship Development.*

Se adjuntan de nuevo los documentos mencionados en este escrito:

- Carta de concesión del sello Erasmus Mundus
- Convenio del consorcio Erasmus Mundus



Xavier Gil Mur
Vicerrector de Política Científica
Rector en funciones (por ausencia, art. 72 Estatutos UPC)

Barcelona, 1 de octubre de 2013

Education, Audiovisual and Culture Executive Agency

Erasmus Mundus and External Cooperation

Professor Antoni Giró i Roca
Universitat Politècnica de Catalunya
Civil Engineering
C/ Jordi Girona, Campus Nord, Edif. R, 31
ES - 08034 Barcelona
España

Brussels, 19 July 2012
ARES (2012)1029541

Re: Erasmus Mundus Action 1B – Erasmus Mundus Joint Doctorate Programmes (EMJD)
Call for Proposals EACEA/42/11
Title: International Doctoral Program in Computational Mechanics
Ref.: 532722-1-ES-2012-1-ERA MUNDUS-EMJD
(Please quote this number in all correspondence)

Dear Professor Antoni Giró i Roca,

You have submitted a proposal under Action 1 in the framework of the Erasmus Mundus Call for proposals EACEA 42/11.

I am pleased to inform you that your above-mentioned proposal has been selected.

The Agency has received 133 proposals under Action 1B – Erasmus Mundus Joint Doctorate Programmes – out of which 9 were selected for funding.

All proposals were assessed with the assistance of independent academic experts. Enclosed you will find the consolidated version of the experts' assessments of your proposal. Please take account of the fact that most of the assessments were written by non-native speakers and that the Agency cannot comment on these independent assessments.

The selection decision is based on the quality of the proposal, its relative position in comparison with the other proposals received as well as the budget available.

The Agency will publish the version of the project description that you included in your application on the Erasmus Mundus website: http://eacea.ec.europa.eu/erasmus_mundus/results_compendia/selected_projects_promote_ehe_en.php.

EACEA – "Education, Audiovisual and Culture" Executive Agency
Avenue du Bourget, 1 (BOUR 02/31) – 1140 Brussels – Belgium - Office : Rue Colonel Bourg, 135-139 - BE-1140 Brussels
Telephone : direct line (32-2)295.96.92 – fax (32-2)292.13.28
http://eacea.ec.europa.eu Email: joachim.fronia@ec.europa.eu

It is very important that you provide us with the "url" of your project's website as soon as this is available, so that this link can also be given on the Agency's site. If you have amendments to make to the project description after publication, please let us know via the Erasmus Mundus functional mailbox, EACEA-Erasmus-Mundus@ec.europa.eu.

PLEASE NOTE
In order to issue the Framework Partnership Agreement, we need to proceed with the necessary validations. We kindly ask you to send us the Financial Identification Form and the Legal Entity Form, whose templates are available at the following links:

Financial Identification Form:
http://ec.europa.eu/budget/contracts_grants/info_contracts/financial_id/financial_id_en.cfm#en
Legal Entity Form:
http://ec.europa.eu/budget/contracts_grants/info_contracts/legal_entities/legal_entities_en.cfm#en

Please fill them in according to the instructions given, scan them and e-mail them to eacea-EM-Consortia@ec.europa.eu at your earliest convenience and in any case **no later than 31/08/2012**.

We would also like to take the opportunity to invite you and a representative of one of the partners of your consortium to the 2012 Erasmus Mundus Coordinators' meeting for newly-selected projects, which will take place in Brussels on 20-21 September 2012. Please note that for organisational reasons we cannot allow the participation of more than two representatives of your project. A full programme of the event and practical information will follow in a message later in July.

Please do not hesitate to contact us should you have any further questions.

Sincerely Yours,

J. Fronia

Joachim Fronia

Head of Unit

Annex: Comments and recommendations from the academic experts who assessed your proposal.

Joint Doctorate Programme

Evaluation Report

Proposal number:	532722-EM-1-2012-1-ES-ERA MUNDUS-EMJD
Proposal title:	International Doctoral Program in Computational Mechanics
Coordinator:	Professor Pedro Diez
Applicant organisation:	Universitat Politècnica de Catalunya

Award Criteria

B.1 Academic and Research quality (25% of the max. score)

Computational mechanics constitutes a key element in modern engineering, acting as a bridge between mathematical models and production. Its development is not so fast as needed and there is a delay in the life cycle of new developed algorithms. The proposed doctoral school intends to prepare skilled individuals who are able to close this gap. The needs analysis is well conducted and convincing and the objectives are very important for industrial innovation.

There are many similar programmes in EU and world-wide, although most of them are specialized on particular topics. The proposed programme will exploit existing sophisticated methodologies and develop new innovative ideas and algorithms in emerging areas. An EMMC on the same topic exists and the present proposal leverages on that EMMC. However, the proposed programme, although of a very good overall level, appears overestimated

A very detailed training and research programme is presented, with a clear description of the respective roles of mathematical modelling and numerical simulation. The main strength of the programme is the common structured core and specialised curriculum, the coordinated mobility, and the industrial tutoring. Modules for entrepreneurship training are part of the programme.

The consortium members collaborate with aerospace industries, software companies, mechanical engineering and automobile companies. This ensures a high level of interdisciplinary.

The main outcome is a very good expertise in computational mechanics on topics significant to industry. The proposed curriculum is robust enough and one might expect a good scientific and transferrable knowledge.

B.2 Partnership experience and composition (25% of the max. score)

The relevance of the composition of the consortium to the programme and the complementarity of the partners is well presented, together with the expertise of the academic staff. The research staff involved is globally of high level and has a long-standing experience in graduate and doctoral training.

The consortium brings together universities, engineering schools, research laboratories and industries with important collaborative research. A table presents the areas of expertise of the

partners, and they cover a wide spectrum that no single institution can achieve. A list of the main industrial applications in which each partner has participated completes the presentation of complementarity and diversity.

The partnership and networking is firmly established via a EMMC and an ITN in the field. Moreover, six of the eight full partners are part of the network Top Industry Managers for Europe (TIME). The consortium will also benefit from sister schools in China and Singapore.

Partner institutions have well-established collaborations with industry and the professional world. The project is convincing in the role of the industrial sector in the training, tutoring, placements and exploitation of results. The non-academic partners will suggest research topics, deliver seminars, and participate in SEED Summer Schools.

B.3 European integration and functioning of the programme (20% of the max. score)

The EMJD programme will offer an integrated two-institution based curriculum and summer schools. Doctoral students will be co-supervised by two institutions. A detailed scheme of the programme with ECTS, research training, mobility and transferable skills is given. It includes training placements at industrial partners.

The programme foresees one year mobility during the 2nd year, with possible further mobility in a company. The mobility periods are considered essential to the project.

Common standards for the application, selection, admission and examination of students are guaranteed by the governing Board of Studies of the consortium, where representatives of each partner are present. The recruitment procedure complies with the European Charter of Researchers and all institutions have well established Equal Opportunities Policies that monitor equal opportunities in relation to both students and staff.

A Steering Committee will monitor and guide the supervision of the candidates. It is expected that each doctoral candidate will on average publish one conference paper and three journal papers. The final assessment of the doctoral thesis includes an examination in front of a panel of international experts.

The consortium will award a Joint degree or a Double degree depending on the institutions involved. A Diploma Supplement and a Joint Doctoral Certificate of Excellence are included. The members of the consortium intend to work towards the possibility of giving a joint degree.

B.4 Provisions for EMJD candidates and fellowship holders (15% of the max. score)

The partner institutions have great experience in international recruitment and a well-established way to reach third-country students. The consortium will use its institutional links with several universities. Other standard measures will be implemented.

International offices at each partner will provide services before and after the arrival of the candidates, covering all aspects of administration, visa, accommodation, travel and orientation. Special support for disabled students is foreseen. Each student will be assigned a mentor to help him/her in the first settlement.

The official language is English. All partner institutions will provide free national language modules fully recognised with 15 ECTS.

Students will have an employment contract, including social security and pension rights. After the third year of the programme the financial support will be assured by a research grant at the primary

institution. Fellowship holders will be equally allocated between the partners.

Candidates will benefit from a mentoring system to help them for their career development. Specific industry training and company placements will enhance the candidate's employability.

The content of the Doctoral Candidate Agreement is presented. It covers all necessary issues. A draft is produced in the annexes.

B.5 Programme Management and Quality Assurance (15% of the max. score)

The organizational structure is clear and efficient. The Board of Studies (BoS) will ensure that each partner is involved in the management of the programme. An agenda of the winter and summer meetings of the BoS is given. The associated partner CIMNE will provide managing and administrative support.

The programme will require the use of supercomputing facilities and is clearly laboratory based. No differences exist in participation costs between EU and non-EU candidates. The costs to be covered by the course incomes are listed. The duration of the doctoral programme is 4 years and the funding of the fourth year will be through research grants.

The consortium is strongly committed to the continuation of the programme beyond EU funding. A sustainability plan is presented. The consortium foresees complementary funding from national and regional research councils, foreign governments, embassies and research funding agencies, and industrial partners. Doctoral grants from these funding sources are already secured.

Quality assurance principles and procedures are implemented at the individual institutions, including internal and external evaluations. Candidates are required to regularly give feedback by filling a questionnaire to be used for the establishment of quality indicators. A specific committee, External Monitoring Advisors, will conduct the quality assessment of the whole programme.

Other comments on the proposal

Computational mechanics constitutes a key element in modern engineering, acting as a bridge between mathematical models and production. The proposed doctoral school is very good and intends to prepare skilled individuals capable of building this bridge. The needs analysis is well conducted and convincing. The research staffs involved are of high level. The non-academic partners will suggest research topics, deliver seminars, participate in SEED Summer Schools, and provide industrial placement and mentorship. Their role is very well justified and appropriate. The mandatory mobility is considered essential to the project. Common standards for the admission procedure are guaranteed by the governing Board of Studies of the consortium. The consortium will award either a Joint or a Double degree. International offices at each partner ensure an appropriate set of services. Students will have an employment contract, including social security and pension rights. A Doctoral Candidate Agreement is presented. The programme is laboratory based. The duration of the doctoral programme is 4 years and the funding of the fourth year will be through research grants. The consortium is strongly committed to the continuation of the programme beyond EU funding. A sustainability plan is presented. Appropriate quality assurance measures are foreseen.

In the proposed ECTS scale, too much weight is accorded to research skills instead of research. This practice is orthogonal to the international standards for doctorate degrees in Science or Technology.