

## INTRANET - Applications

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EP12D1005FU

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#### 1. Personal Details

##### Applicant's Personal Details

- \* Surname/Family Name: Maltseva  
 \* Forenames/Given Names: Evgeniya  
 \* Date of Birth: 16/12/1988 (day/month/year)  
 (day/month/year)  
 \* Place of Birth: USSR, Krasnoyarsk region  
 \* Gender: Female  
 \* Nationality: Russia  
 \* IC/Passport : IC no. : Passport no. : 728279276  
 (at least one)  
 \* Have you applied at the same time to other financial support (Project funded by the European Union or other)?  
 No  
 \* Are you also applying to ERANET-MUNDUS?  
 No

##### Permanent address

- \* Street and number: Leningrad prospect 59-111  
 \* Postcode: 662974  
 \* City: Zheleznogorsk  
 \* Country: Russia

##### Contact Details

- \* Telephone: +79082054812  
 \* Primary e-mail: MaltcevaE@mail.ru  
 Alternative Email: ultro37@mail.ru

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#### 2. Home Institution

##### Details of the Home Institution

Proof of HEIs support to be provided

- \* Official Name of the Higher Education Institution: SibFU - Siberian Federal University  
 \* Country: RU  
 Russia  
 Applicant's Student Number: 1579

##### Organization responsible for the Doctorate at the HEI

- \* Faculty/School: Building materials and products  
 \* Department: Department of Building materials and construction technologies  
 \* Name of Academic Supervisor: Dr.-Pr. Nazirov  
 \* Position of the academic supervisor: Head of department  
 \* Academic Supervisor's Email: nazirovra@gmail.ru

(Max. 1500 characters)

My supervisor is Dr.-Pr. Rashit Nazirov. He is head of Department "Structural Design and Real Estate Examination". The main research interest is study of natural background radiation of building and structures, development of compositions and methods of low natural radiation, ecologically sound tailored radon permeability materials, energy-saving and resource-conscious, development of eco-friendly building materials.  
 He has sufficient publications and inventors certificates and patents. He takes active participation in international conferences. He is participant in some collaboration projects with foreign universities.  
 Also he has written a several monograph, text-books and teaching aids.

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#### 3. Academic Qualifications

##### Indicate the main academic qualifications achieved, starting by the most recent ones.

Proof of all academic qualifications must be provided; please **upload** a copy of the official documents in **section 10**.

(a)

- \* Academic degree awarded: Master  
 \* Title: an Engineer-Architect  
 \* Institution: Civil Engineering Institute, Siberian Federal University  
 \* Country: Russia  
 \* Date of Award: 12/2012 (month/year)  
 \* Grade obtained / Max. Grade: 5/5

(b)

- \* Academic degree awarded:  
 \* Title:  
 \* Institution:  
 \* Country:  
 \* Date of Award: (month/year)  
 \* Grade obtained / Max. Grade:

(c)

- \* Academic degree awarded:  
 \* Title:  
 \* Institution:  
 \* Country:  
 \* Date of Award : (month/year)  
 \* Grade obtained / Max. Grade:

(d)

- \* Academic degree awarded:

\* Title:  
 \* Institution:  
 \* Country:  
 \* Date of Award: (month/year)  
 \* Grade obtained / Max. Grade:

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#### 4. Employment Experience

Post held and a brief description of the nature of employment. Please include all details which are relevant for your training.

\* Do you have any employment experience?

Yes

\* If YES, please describe your employment experience:

(Max. 1500 characters)

October 2013-nowadays.Research assistant,involved in research "Study on glass powder as replacement of cement in concrete production".

-performing laboratory investigations for my research work;  
 -utilizing thermal analysis,x-ray diffraction,spectroscopy,microscopy to test and analyze lab results;  
 -interpreting data and reporting scientific results;

-development and improvement of analysis procedures.

March 2013-October 2013.Designer,construction company.

-designed reinforced concrete and metal structure;  
 -developed detailed plans in AutoCAD;  
 -applying personal technical knowledge and experience to the development and delivery of technical documents.

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#### 5. Language skills

Proof of language proficiency must be provided; please upload a copy of the official documents in section 10.

\* Mother tongue: Russian

Other languages:

Language	Listening	Reading	Writing	Speaking
1. English	Basic	Basic	Good	Good
2. German	Fluent	Fluent	Fluent	Fluent
3.				

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#### 6. Publications

Please indicate your most relevant publications, starting with those mostly related to your proposed training.

The references must include: authors, title, publisher, year, city, page number and other relevant bibliographical data.

If you don't have any publication, click on "Save" without writing any information.

(a)(Max. 500 characters)

Evgeniya B.Maltseva,Sergey S.Dobrosmlslov,Rashit A.Nazirov, Research on glass powder as replacement of cement in concrete production,Journal of Siberian Federal University,Ebngineering&Technologies,Krasnoyarsk.(Accepted 2014).

(b)(Max. 500 characters)

(c)(Max. 500 characters)

(d)(Max. 500 characters)

(e)(Max. 500 characters)

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#### 7. Proposed Training

Please indicate the main aspects of your proposed training.

The workplan proposed must coherently describe the existing relation between the activities already developed in the home institution and those you intend to develop in the host institution. If your proposed training includes both a teaching and a research component, you must describe both in detail.

\* Type of training:

Doctorate

\* Duration of the Requested Scholarship: (Number of months)

6

\*If you are registered for an official doctoral programme at your home institution, please fill in the information below:

Title of the Doctoral Programme you are enrolled in:

Building materials and products

Title of your research project:

Research on glass powder as replacement of cement in concrete production

Field of study of your doctoral programme:

06 - Engineering, technology

06.4 - Civil Engineering

\* Briefly describe the doctoral programme you are enrolled in at your HEI:

(Max. 1500 characters)

Building materials and products is a field of science that revolves around the development of technology to assist in the obtainment of building materials.It takes a scientific approach to issues such as the choice of raw materials,design compositions,management of physical and chemical processes of structure and technology,the supply of high performance characteristics of products and structures under going mechanical loading and environmental influences.

The several field of researches:

-Development of theoretical foundations of varios building materials with a given set of operating properties;  
 -Creation of new building materials,providing construction of prefabricated transformed and durable building;  
 -Development of new energy-saving and environmentally friendly processes and equipment for construction materials and products for varios purposes.

\* Describe in detail the work plan you intend to develop at the host HEI:

(Max. 2500 characters)

October,2015-acquaintance with advanced instrumentation and up-to-date teaching and learning methods and facilities available in the UPC Barselonatech.

Acquaintance with recent works of the institute in the field of glass-containing materials, recycled glass ceramics and recycled aggregate concrete.

November,2015-acquaintance with the methods and tools of investigating structural characteristic of materials applied in Spain.

Acquaintance with composition quality control facilities applied in Spain.

December,2015-application of mathematic methods in the processing of experimental data used in Spain.

October,2015-March,2016-participation in applied and laboratory research activities;

experimental analysis of properties a new type a glassconcrete;

determine physical,mechanical and durability properties as well as the microstructure and the crystallography of the glassconcrete according to my thesis;

the study of influence of amount of recycled glass as coarse aggregate and production process on properties of glassconcrete according to my thesis;

research of chemical processes associated with the interaction between the CaO and SiO2 according to my thesis.

March,2016-publication of a paper displaying results of research.

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#### 8. Host Universities you apply to

Please prioritise the HEIs you are applying to.

\* Field of study of the project you intend to develop at the host Institution:

06 - Engineering, technology

06.9 - Others - Engineering, Technology

**\* Official Name of your first host Institution priority:**

UPC - Polytechnic University of Catalonia

**\* Country:**

Spain

**\* Official name of the course you intend to attend at the host institution selected as first priority:**

Doctorate exchange stay in the Doctorate in Automatic Control, Robotics and Computer Vision

**\* Is your proposal part of any common project of the two institutions?**

Yes

If YES, please quote the project title:

Study of glass powder as replacement of concrete production

**\* Have you established any previous contacts with any academic of the HEI to supervise your work?**

Yes

If YES, please quote the name of the academic:

Pr. Miren Etxeberria

**Official Name of your second host Institution priority:**

-

**Country:****Official name of the course you intend to attend at the host institution selected as second priority:****Is your proposal part of any common project of the two institutions?**

If YES, please quote the project title:

**Have you established any previous contacts with any academic of the HEI to supervise your work?**

If YES, please quote the name of the academic:

[Back to index](#)**9. Motivation and Added Value****\* Please state briefly the main reasons why you intend to undertake post-graduate studies, as well as the added value you perceive to be attached to your training proposal.**

(Max. 1000 characters)

I love what I am doing. Post-graduate studies it is not only a great opportunity to do something necessary and useful but it also opportunity improve the transferable skills and qualities. I have a sensible idea of where it might lead me professionally once I will finish. Also I aspire to a career in academia and for me it is essential to undertake a PhD programme. Also I would like to teach in university and share my experience.

**\* Why have you chosen this field of study/subject area?**

(Max. 1000 characters)

There is a big problem in Russia, In Siberia. Krasnoyarsk region is surrounded by landfills. The amount of glass wastes is increasing over the year. Most of the glass wastes have been dumped into landfill sites. Secondary resources are not involved in the economy. There is no program for recycling glass in Krasnoyarsk region.

This problem can be greatly reduced by re-using waste glass as a cement replacement in concrete. Moreover, there is a limit on the availability of natural aggregate and minerals used to make cement.

Probably, my research will help to sort out this problem. So one of the aim of my research work has ecological character. I guess, not only this thesis is urgent for Russia, but it also for a lot of other country.

**\* Please describe briefly the impact of your training proposal on the development of your professional activity.**

(Max. 1000 characters)

My training proposal will give me the opportunity to develop professional skills and get an experience in the field focused on the relationship between the structure, properties and processing of various material classes with emphasis on glassy materials, glass ceramics and composites.

I am very interested in advanced instrumentation and up-to-date teaching and learning methods and facilities available in the institute. My special aspiration is about glass recycling technologies, material testing tools, strength of materials analysis, material composition engineering, higher cohesion of materials in the compositions, composition quality control facilities, compositional materials technology.

Also my training proposal will help me to know about recent advances in my research area, make clear arguments and explain ideas effectively to a range of audiences using different methods.

**\* Please explain briefly how you think your training proposal might contribute to the development of institutional links between the home and host institutions.**

(Max. 1000 characters)

I am sure that contribute to the development between the home and host university will be successful.

Pr. Miren Etxeberria is specialist on using recycled materials on mortar and concretes. Her work is based on evaluating the micro and macrostructure of concretes produced using recycled materials.

It will be great possibility of exchange of experience because our research interest are identical.

After my being back to my home university, I will continue my research and learning, and will complete my dissertation paper including my European knowledge and experience.

I will also try to introduce the research team in my institute into the knowledge and useful contacts in the Polytechnic University of Catalonia in order to further develop inter-university interactions. An oral presentation on the intership outcomes and state-of-the-art building materials and technologies taught in Europe will achieve this purpose.

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(DOC or PDF, with a maximum of 2 MB each)

Due to limitations in the webserver that hosts this website, the uploaded documents must have a maximum size of 2 MB.

**\* ID card or Passport:** [ID.pdf](#) (99.205 bytes)**\* Educational Record (transcript of records) / Degree Certificates:**

In the case of having achieved more than one academic degree, the uploaded file must contain the scan of all documents.

 [History.pdf](#) (429.666 bytes)**\* Invitation letter** [InvitationLetter.pdf](#) (273.918 bytes)**\* Language Certificates:**

If the host institution you're applying to demands specific language skills (eg. Dutch or English), the upload of the correspondent language certificate is mandatory.

 [Language.pdf](#) (275.487 bytes)**\* CV (Curriculum Vitae):** [CV.doc](#) (40.960 bytes)**\* Proof of economical and/or social disadvantage situation (optional)**

Other documents (recommendation letters ...):

 [Other.pdf](#) (293.505 bytes)[Back to index](#)