

Net4Mobility⁺



Net4Mobility+

Network of the Marie Skłodowska-Curie Actions National Contact Points for the mobile scientific and innovation community

Success Stories from MSCA Fellows Hosted in Widening Countries

Task 4.4 Effective MSCA promotion

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Name of the MSC Fellow: IRYNA KOZINA

Nationality: Ukrainian

Host organization: AGH University of Science and Technology

Country of the Host: POLAND

Project Acronym: mCBEEs

Project start and end date: 01.10.2017 – 30.09.2021

Type of MSC action, H2020: ITN



Project objectives and research field:

The research field of this project is materials engineering and corrosion. The main goal of this project is to improve corrosion resistance of Mg and its alloys which can be used in the biomedical field. I will study the mechanism and corrosion kinetics of Mg and its alloys in simulated body fluids. In order to improve the corrosion resistance of Mg alloys I will apply the biopolymers coatings.

Tell us why your topic is important and/ or how it brings to advancement in your research field:

There are scientists all over the world trying to find biocompatible, nontoxic and non-allergic materials to be used as implants for biomedical applications. Nowadays some of those materials are used in practice, but also they have to be protected from corrosion and need to be improved. In my opinion, my topic is very important because Mg is one of the nearest to human's bones material. Mg has all main characteristics which have to be present in materials for biomedical applications. But also Mg and its alloys have low corrosion resistance and have to be protected by other biocompatible materials. In my case, it is natural biopolymers which will be applied as a coating on Mg and its alloys surfaces. Advantages of applying biocompatible and biodegradable materials, which I will use during my research is the possibility to make only one surgery at the beginning of the healing process, after healing all biodegradable materials will be derived by natural way.

What are the benefits of participating in a MSC action?

First of all, during this project, I will study a lot in a foreign language. It helps me to get new knowledge in my main direction – materials engineering and corrosion science and also improve foreign language. I will make my research and can show my results as a participant in scientific conferences and in meetings of our international project. After this project I will get doctor degree that will expand the possibility to find an interesting and useful job in future.

Did you encounter any challenges during application/ implementation and did you get any help?

I didn't encounter great challenges or problems during my application. But if I have any kind I hope my supervisor will help me to solve them.

Why did you choose a widening country as a Host? What was the reason that convinced you? What is making you professionally happy here?

In this project I came from Ukraine. My own country isn't in the European Union, so that is why it wasn't possible to participate in the project and stay at home. Nowadays I have the great honor to be participant in one of the biggest international projects for young scientists. I have a great opportunity to make my PhD research in one of the best Technical University of Poland – AGH University of Science and Technology and also the opportunity to have secondments and workshops in different countries of the European Union. It gives possibilities to visit exciting lectures, trainings and get laboratory experience and so on, get new friendships. Personally for me it is a great opportunity to live in a foreign country and learn new language and to be in another culture.

It makes me happy that I can work with new and powerful equipment. During this project I will also be trying to do my contribution to science.

Would you recommend others to apply? What useful advice/ tips can you give them?

I will recommend to take part in all projects which can give something interesting and useful for self-development of each person. I can give one advice – don't be afraid. If someone has the possibility - then it has to be used. At the beginning it is always scary to make any changes in life, but when we can see great results it's inspiring to do more and more as we can. And last but not least - each person has to love what they do only after that it will be possible to get the best results for self-development and for the project.