

# Net4Mobility<sup>+</sup>



## Net4Mobility+

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

### Success Stories from MSC Fellows Hosted in Widening Countries

Task 4.4      Effective MSCA promotion

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**Name of the MSC Fellow: Camille Reynaert**

**Nationality: French**

**Host organization: AGH University of Sciences and Technologies**

**Country of the Host: Poland**

**Project Acronym: ATHOR**

**Project start and end date: 15.01.2018-14.01.2020**

**Type of MSC action, H2020: ITN**

**Project objectives and research field:**

ATHOR project is an ambitious project focusing on refractories used for steel making application. It is about the multiscale modelling of a full steel ladle, from micro-, meso- and macroscale. My part will focus on the evolution of microstructure due to corrosion and its influence on thermal properties.

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

This project is interesting because it will combine experimental results from different scales: microscale with the study of microstructure, mesoscale and macroscale with experiment on wall of several meters, with numerical simulation.

Thus it will be possible to adapt and develop advanced modelling strategies and experimental technologies to the field of refractory to be able to perform reliable computations and measurement in the temperature range of the applications of these materials. The goal is to help the design of better refractories lining: higher robustness and reliability.

Ultimately, it should lead to a reduction of refractory cost, better process control and less heat loss during the treatment. Three parameters of importance for the partners of the projects.

**What are the benefits of participating in a MSC action?**

Working in an ITN project is a great opportunity. It is set in an excellency settings with major academic and industrial partners which is a good way to build a powerful network.

It relies on the work of several ESRs in parallels and leads to interesting discussion due to the different opinion and background of the people involved.

The diversity of the training proposed in the setting of the project as well as the plant visit are very valuable to enhance my knowledge about refractories.

Also, as I would like to work in the R&D center of a corporation, it is a really interesting project. I will be able to achieve a PhD and have a glimpse of the real challenge that

industry must face today. This way I will be more prepared when I enter the job market.

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

Going abroad is always challenging but also very exciting because you have the opportunity to discover new cities, culture, way of life and way of work.

I decided to come to Poland and especially Krakow because it is an attractive city. Before coming I discussed with several people and they were really satisfied and happy with the time they spent in Poland. Also as it is a widening country, it might offer a lot of opportunities for the future.

I like working in Poland because the working environment is friendly but stimulating. I have the chance to work with reliable and knowledgeable persons whom can help and advise me with my work.

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

Yes, I would definitely recommend this experience to other people. It's something that really makes you grow personally and professionally. It is a one-time life experience.

I will advise them not to be afraid to apply but I will recommend them to take the time to look into the different countries they want to go to. This way the arrival in the host country will be much easier and less stressful.