

**Host organization:** Institute of Chemical Engineering, Bulgarian Academy of Sciences

**Country:** Bulgaria

**Organization role:** Beneficiary/ WP leader/Task leader

**Project Acronym:** IProPBio

**Project start and end date:** 01.01.2018 - 31.12.2021

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

### **Your story:**

#### **Project objectives and research field:**

IProPBio addresses key engineering, thermodynamic, energy, environmental, safety, production and process challenges in the design, optimization and operation of sustainable biorefinery systems for multiproduct portfolios. The overall goal of IProPBio is to exchange complementary theoretical and experimental knowledge of research staff while looking for innovative answers in the field.

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

Biorefinery is a novel industrial concept, recognized as the most promising route for employment of the full potential of the biomass industry to utilize biowastes and industrial crops. The primary objective of biorefinery systems is to maximize the conversion of biomass and waste biomasses into high value products, to reduce the environmental pollution, caused by traditional oil based chemical industries and to stimulate regional and local development. In the EU, biorefineries' social and economic benefits are well recognized. Bio-based economy involves in Europe 22 million people and turns over roughly € 2.4 billion. It has been estimated that this sector has the potential to create € 32.3 trillion revenues and 1 million new jobs in Europe by 2020.

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

IProPBio is still in its infancy – the project started on 01.01.2018. Yet, it is our firm belief that the secondments planned are realized/will be realized within the time-span of the project and will be used as a very efficient tool for exchange of advanced knowledge, technologies and training and expanding synergies among labs in different Consortium entities. The secondments will increase secondees' capacity, skills and diversification by giving them access to knowledge and infrastructures not available in their own countries/premises, and will promote scientific intensity and competitiveness of the respective countries.

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

Yes. To study carefully the guidelines; to formulate clear-cut objectives, tasks of the different WPs and believable and achievable deliverables.

**What strategies did your organization use to attract the fellow/s? Are they in line with national strategies supporting the widening EC policy?**

Personal scientific contacts with colleagues from EU and Third Countries.