

Expertise & Experience

Birsan Mariana, 34 years old, mechanical engineer

Position in project: member in research team

Current position held: Scientist Researcher (CS), Testing Department - DI, INMA, No.6 Ion Ionescu de la Brad Blvd., sector 1, Bucharest, Romania, 013813

PhD student in mechanical engineering UPB, The Faculty of Biotechnical Systems Engineering, field of doctoral research program "Contributions concerning the optimization of the separating process of cereal seeds in high capacity cleaning machines".

Professional experience in the field of the project: experience in scientific research in the field of agricultural machinery and equipment over 9 years at INMA Bucharest, working in Research Development Innovation Department - Laboratory of Agricultural products processing technologies and Installations, from 2007 until 2013 and from 2013 until now, in Testing Department, doing reaserch and testing activities in the field of technologies and equipment for agriculture and food industry. I worked in research teams within the national and international programs to elaborate technical documentation: technical sheets, technical books, product standards; technical assistance to execution, testing and commissioning of technical equipment, dissemination of research results in national and international congresses and symposiums.

List of most important achievements in the field project:

1. *Harvesting technologies for medicinal and aromatic plants*, The 12-th Annual Meeting,, Durable Agriculture - Agriculture of the future"17-19 nov. 2016, Craiova
2. *Technologies for thermal control of weeds*, International Symposium ISB-INMA TEH, 27-29 octombrie 2016
3. *Experimentation methodology for seeds separation with plan sieve and in airflow*, International scientific symposium „ Sustainable development in agriculture and horticulture”, 12 – 13 November 2015, Craiova;
4. *Current stage of installations for seed separation in airflow*, International symposium ISB-INMATEH, Agricultural and Mechanical Engineering Romania, 30 October – 1 November 2014, pag. 531-534, (BDI);
5. *Theoretical aspects on optimizing the quality indices of machines for applying phytosanitary treatments in the field*, International scientific symposium „ Sustainable development in agriculture and horticulture - Second edition”, 13 – 14 November 2014 (BDI);\
6. *Aspects regarding the qualitative indexes of the work of application of phytosanitary treatments in the field crops*, International symposium ISB-INMATEH, Agricultural and Mechanical Engineering Romania, 30 October – 1 November 2014, pag. 487-498 (BDI);

List of research grants as participant member:

1. Programme CEEEX: Research on the development of modern technical applications for cultivation of valuable species of medicinal and aromatic plants, including processing of primary and valorization;
2. Programme NUCLEU: Extension of sericulture farms in Romania by creating a new innovative technologies and a technical equipment competitive