

4D-POSTDOC – DEVELOPMENT AND SUPPORT FOR POSTDOCTORAL MULTIDISCIPLINARY PROGRAMMES IN PRIORITY TECHNICAL FIELDS ACCORDING TO THE NATIONAL RESEARCH–DEVELOPMENT–INNOVATION STRATEGY

Goal of the project

The main objective of the project is to increase the quality of the management for postdoctoral research projects in the three involved universities. The aim is to develop human resources involved in research, with the view of economic growth and creation of the knowledge based society. The project financially supports young researchers, in order to increase integration in the European Research Space and economic competitiveness by applying innovative technologies resulted from applied research.

Short description of the project

Specific objectives:

- Increase of the participation rate of the experienced researchers in developing a career in research in technical fields; the aim is to increase financial support for working, researching, publishing and to offer a better research infrastructure;
- Improvement of the postdoctoral research programmes, in: number of researchers, number of priority research subjects, quality of outcome publications;
- Improvement of the access to the research infrastructure, through co-operation with universities and research institutes in the EU;
- Improvement of the postdoctoral research programmes' management in the three partner Romanian universities;
- Financial support for 16 postdoctoral researchers in UPT, for their research (including periods abroad) and for their participation to international conferences;
- Increase of the research results visibility through publication in the main stream of international journals and conferences.

Main activities

- Development of a framework for selecting the target group of researchers to be financed, based on competition;
- Institutional building for managing the postdoctoral programs in the 3 partner universities;
- Financial support for the selected researchers, through monthly research grants (maximum 1000 Euro/month, during 34 months);
- Financial support for researchers' participation to international research conferences, symposiums, seminars, congresses taking place within the EU space;
- Additional monthly financial support during the research periods spent abroad in research centers/institutes or universities from EU;
- Tutoring and scientific guidance for researchers;
- Development of a training/specialization program in specific research topics;
- Dissemination within 3 project conferences.

Results

- 16 researchers from UPT selected;
- Financial support for 15 researchers (one has withdrawn after 3 months, due to family problems);
- 70 published research papers in different international journals, by the UPT researchers;
- 48 presented research papers to different international conferences, by the UPT researchers;
- 53 ISI publications by the UPT researchers;
- 15 agreements with industrial companies for transferring research results;
- 17 agreements signed with EU research institutions/universities for exchanging researchers and/or expertise;
- 15 research periods of up to 3 months spent in different EU research laboratories for conducting joint research.



Project implemented by

Politehnica University of Timisoara
Technical University Cluj-Napoca
Technical University of Iasi

Implementation period

01.04.2010 – 31.03.2013



Applicability and transferability of the results

Management of modern postdoctoral research programs is a necessary ability for any university that intends to integrate itself in the European Research Area. The under-financing of the Romanian educational and research system created a gap between generations of researchers. The experience gained by this project in getting European support in organizing research programs, can be transferred to any other interested Romanian university. On the other hand, researchers' experience gained through the project already created cooperation links with researchers from other European research institutes.



Fields of interest

Research projects' management, Romanian research infrastructure, European Research Space, Scientific Entrepreneurship, Scientific innovation, Technology transfer, Third Millennium engineering principles, Sustainable development through research, Green IT, Modeling systems with complex fluids, Modeling and simulating computer systems and networks.



Research centre

Research Centre for Multimedia

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Research team

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