



UNIVERSITY OF STUTTGART
TEMPUS PROJECT: 158623-TEMPUS-DE-SMHES
Development of Partnerships with SMEs
in BA by Virtual Engineering Network

*PARTNERSHIPS
&
VIRTUAL REALITY*



PROJECT PRESENTATION

Contract Number

158623-TEMPUS-1-2009-DE-SMHES,
Grant agreement: 2009-4702/ 001-001

Project Acronym: DePSME-VENet

Project Name

Development of Partnerships with SMEs in BA
by Virtual Engineering Network

Project Duration: Jan. 2010 – Jan. 2013.

Programme

TEMPUS IV second call for proposals No.
EAC/01/2009, Structural Measures 2009

Type of the project

Higher Education and Society (HES)

Co-ordinator

UNIVERSITY STUTTGART
Keplerstrasse 7, D-70174 Stuttgart, DE
Co-ordinator: Dr-Ing. STEFAN WAGNER

Have Agreed

Education, Audiovisual and Culture
Executive Agency (EACEA), 1140 Brussels,
Belgian.

Project Motto

PARTNERSHIPS & VIRTUAL REALITY

Strategic objective

In line with perceived needs and contains in the BA (Bosnia & Herzegovina), development strategies concerning education, research and innovation policies, the proposed project comprises activities that are in compliance with the programmed wide priorities for TEMPUS IV Higher Education and Society: Development of partnerships with enterprises; Training of non university teachers; Training courses for public services (ministries, regional/local

authorities) and Development of lifelong learning in society at large. The project was created as a result of long-term analysis of the needs in society and defined the development strategy plan for industry by the university support. The overall aim of DePSME-VENet project is to enhance, strengthen and grow capacity building in order to development strategy of partnerships between universities and enterprises/SMEs in accordance with principles on the EUs modernization agenda and national priorities, through sustainable long term partnerships.

Specific objectives

1. Establishment of Cooperation Focal Points (CFP) and CFP network at 5 BA-Universities for strengthening of cooperation and partnerships between University and Industry through trainings, consulting and practical research by Virtual Engineering.
2. Setting up of new Partnership Concept University – Enterprises/SMEs to the specific circumstances of BA economy by adjusting and applying the best practices of similar EU development models.
3. Modernization of programme for vocational trainings, engineering fellowship and consulting tools in higher education for SMEs.
4. Development and conduction of Practical Placement Programme (PPP) for students in consultation with community members / stakeholders and EU partners according to practically approved case studies.
5. Providing the quality dissemination and sustainability of University-Industry Links as the results of the Project.

Partners - Beneficiaries

- **University of Stuttgart, Germany**
- **University of Banja Luka, RS, B&H**
- **Szechenyi Istvan University, Győr, Hungary**
- **University of Ljubljana, Slovenia**
- **University of Tuzla, B&H**



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- University "Dzemail Bijedic" Mostar, B&H
- University of E. Sarajevo, RS, B&H
- Faculty of Traffic Engineering, Doboj
- Ministry of Education and Culture RS
- Ministry of Science and Technology RS
- TECOS, Celje, Slovenia
- Republic Agency for SMEs, Banja Luka, RS
- EastCode, Banja Luka, RS, B&H
- EKO MIX, Kotor Varos, RS, B&H
- Kaldera Compani, Laktasi, RS, B&H
- TRI BEST, Banja Luka, RS, B&H

Project Finance

Tempus grant: 525.428,00 €

Total project finance: 581.393,00 €

Technical approach

First part of this project will be establishment of Training Centres: CFP Banja Luka, CFP Tuzla, CFP Doboj, CFP E. Sarajevo and CFP Mostar which are focused on capacity building of higher education in order to make cooperation between Universities and industry through partnerships, trainings, consulting and practical research by Virtual Engineering. Each CFP must be equipped by the relevant equipment and softwares which will academic staff, enterprise engineers' etc. use for product and process development. For sustainability of these CFPs its necessary to make their network –VENet which will be supported by communication tools on WEB portal. In work of CFPs will be included students, young researchers, engineers from targeted enterprises, university teachers and other targeted groups. The main aim of CFPs will be adaptation of VE technologies for new product and process development in the area of production enterprises in BA and multidisciplinary approach for applying on other fields as a medicine, agro industry etc. Experts will prepare base of knowledge for each area of VE technologies which will be useful for development of products and processes and on that way arouse engineers and students awareness for their application.

For specific project objective is to modernize programme of vocational trainings, industrial fellowships and consulting tools in higher education for Industry will be done: i) analysis of the needs for training/service (TSNA); ii) qualify, specialize and certify the trainers; iii) develop, and deliver the vocational trainings for

enterprises, engineering fellowships and associations, students and unemployed graduates; iv) develop and implement engineering fellowship programme (IFP) for graduated engineers by lifelong learning (LLL); v) create the programme for SMEs focused trainings, consulting and practical research by virtual engineering. From the previous experience of the project partners, tentative list of the offered trainings will include the following: i) CAD modeling products, ii) Tool Design for Metal Forming Technology, iii) Tool Design for Injection Molding of Plastics, iv) Design and optimization of production processes by the Virtual Engineering, v) Non-linear finite element analysis, vi) Concurrent engineering in SMEs, vii) Practical marketing for business. Also, CFPs will cover wider list of existing trainings and short courses, delivered by teachers who participate in project.

Expected achievements

- Established and equipped Training Centers with appointed CFP network at following places: CFP Banja Luka, CFP Doboj, CFP Tuzla, CFP E. Sarajevo and CFP Mostar, whose personnel are able to run training service, consulting and practical work by virtual engineering.
- Developed partnership concept university – enterprises / SMEs in accordance to the specific circumstances of BA economy and similar EU development models.
- Developed and carried out programme for vocational trainings, engineering fellowship and consulting tools throughout five CFPs.
- Practical placement programme (PPP) needs identified and successfully developed for students in consultation with community members/stakeholders and EU partners according to practically approved case studies.
- Improved the development and reform of the BA higher education structures and systems of University – Industry links.

Co-beneficiary contact details

Prof. dr Milan Šljivić

Faculty of Mechanical Engineering, Banja Luka

S. Stepanovica 75, 78000 Banja Luka, RS

e-mail: milansli@yahoo.com

Tel.+387 51 462 400, fax. +387 51 465 085

