

Fund for the Improvement of Postsecondary Education (FIPSE)

FY 2009 EU-U.S. Atlantis Program – Project Abstracts

P116J090006

Undergraduate Dual Degree Program in International Business

U.S. Lead: Clemson University (South Carolina)

EU Lead: University of Aarhus (Denmark)
Universidad Carlos III de Madrid (Spain)

This undergraduate dual degree program will develop and implement transatlantic student cohorts. These innovative cohorts of United States and EU students will focus on a research project, a core selection of courses, language training, and site visits. Students will develop an appreciation of the cultural similarities and differences. The project also includes external evaluation, dissemination of results, language training/assessment, and faculty mobility.

FY 2009: \$108,000

Total FIPSE funding: \$420,000 (4 years)

Contact: Mark McKnew, Clemson University, 864-656-2685, mamckn@clemson.edu

P116J090010

Graduate Dual Degree in Arid Land Studies

U.S. Lead: Texas Tech University (Texas)

EU Lead: Sheffield University (United Kingdom)
Humboldt University (Germany)

This Joint Masters Degree program will focus on the study of dryland agriculture including desertification, climate change, and sustainable development. The program will help build a unique research expertise and provide students with greater exposure to classroom, research field knowledge, and cross-cultural experiences.

FY 2009: \$108,000

Total FIPSE Funding: \$420,000 (4 years)

Contact: Aderbal C. Correa, Texas Tech University, 806-742-2218, ac.correa@ttu.edu

P116J090011

Graduate Dual Degree in Fusing Systems and Cancer Biology

U.S. Lead: Health Research Inc. and Roswell Park Cancer Institute (New York)

EU Lead: University of Luxembourg (Luxembourg)
University of Amsterdam (Netherlands)

This Joint Masters degree program will train graduate students with the tools, methodologies, and understanding of systems biology as it is applied to the study and investigation of cancer biology. This program will develop and implement a generic template that is urgently required to drive the biomedical discovery process in both academia and industry.

FY 2009: \$108,000

Total FIPSE Funding: \$420,000 (4 years)

Contact: Moray J. Campbell, Health Research Inc. and Roswell Park Cancer Institute, 716-845-3037, moray.campbell@roswellpark.org

P116J090012

Mobility Project in Transatlantic Public Administration

U.S. Lead: SUNY/Buffalo State College (New York)
SUNY College at Cortland (New York)

EU Lead: Manchester Metropolitan University (United Kingdom)
Babes-Bolyai University (Romania)

This mobility project will seek to improve transatlantic undergraduate educational and training in public administration among the partner institutions. The project will familiarize students and faculty with a broad range of national perspectives on the key issues faced by the public sector and on ways in which the issues can be tackled and managed.

FY 2009: \$51,500

Total FIPSE Funding: \$194,000 (4 years)

Contact: Laurie Buonanno, Buffalo State College, 716-878-6166, buonanl@buffalostate.edu

P116J090017

Mobility Program in Global IT Project Management

U.S. Lead: University of Nebraska, Omaha (Nebraska)
University of Wisconsin, Eau Claire (Wisconsin)

EU Lead: Management Center, Innsbruck (Austria)
Technical University Braunschweig (Germany)

This mobility program will focus on the vital role of information and communication technology in the world today. The program will develop a transatlantic student and faculty mobility program focusing on entrepreneurship, global collaboration, and IT management and research. The program will help enhance relationships for cooperative research and teaching, and improve mutual understanding of U.S.-EU culture.

FY 2009: \$51,500

Total FIPSE Funding: \$194,000 (4 years)

Contact: Deepak Khazanchi, University of Nebraska, 402-554-2286,
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P116J090018

Policy Project on Tuning Transatlantic Cooperation in Rail Higher Education

U.S. Lead: Michigan Technological University (Michigan)
University of Illinois (Illinois)
Transit Safety Management (Washington)

EU Lead: Technical University of Lisbon (Portugal)
Technical University Braunschweig (Germany)
Southampton University (United Kingdom)

This policy project, known as TUNRail, is intended to study and define benchmarks for the study of railways and foster collaboration between the EU and the United States. This project will use comparisons and benchmarking analyses to define the extent, contents, structure, and objective of academic programs, and identifying how well they address key aspects of modern railway systems.

FY 2009: \$76,000 (2 years)

Contact: Pasi Lautala, Michigan Technological University, 906-487-3547, ptlautal@mtu.edu

P116J090029

Policy Project on ABC's of Cultural Understanding and Communications

U.S. Lead: Le Moyne College (New York)
Michigan State University (Michigan)

EU Lead: University of Kassel (Germany)
University of Lleida (Spain)

This project proposes to focus on teaching methodologies to successfully communicate with students, families, and communities, thus making connections to the school curriculum. The project is aimed to help teachers become culturally responsive instructors. The project

will improve student literacy development by drawing upon students' backgrounds to make connections with curriculum.

FY 2009: \$75,992 (2 years)

Contact: Patricia Schmidt, Le Moyne College, 315-445-4793, Schmidt@lemoyne.edu

P116J090031

Graduate Dual Degree Program in Volcanology and Geotechniques

U.S. Lead: Michigan Technological University (Michigan)
SUNY, Buffalo (New York)

EU Lead: University Blaise Pascal Clermont-Ferrand II (France)
University of Milan-Biocca (Italy)

This joint master program focuses on training in volcanology and geotechniques within the context of cultural and linguistic foundations. The staff and student program answers a clear need for a new generation of internationally mobile personnel with volcanological and geotechnical expertise to meet challenges of a rapidly developing field.

FY 2009: \$117,052

Total FIPSE Funding: \$460,000 (4 years)

Contact: William Rose, Michigan Technological University, 906-487-2367, raman@mtu.edu

P116J090038

Mobility Program in International Certificate in Applied Behavioral Studies

U.S. Lead: Marshall University (West Virginia)
University of Charleston (South Carolina)

EU Lead: Warsaw School of Social Sciences and Humanities (Poland)
University of Debrecen (Hungary)

This mobility program will implement an innovative program of study and a specific educational strategy to add value to the study of psychology, to integrate the strengths of each of the partner universities and to promote multicultural and multinational awareness. Students will obtain knowledge and skills necessary to meet the challenges of the knowledge-based global economy of the 21st century.

FY 2009: \$51,500

Total FIPSE Funding: \$194,000 (4 years)

Contact: William Wyatt, Marshall University, 304-696-2778, wyatt@marshall.edu

P116J090040**Graduate Dual Degree in East-Central European Studies**

U.S. Lead: West Virginia University (West Virginia)

EU Lead: Collegium Civitas (Poland)
University of Tartu (Estonia)

This dual degree program will include existing degree programs in History, International Relations, and Social Sciences. Faculty and student mobility will encompass research collaboration, new courses, and joint participation on research.

FY 2009: \$108,000

Total FIPSE Funding: \$420,000 (4 years)

Contact: Robert Blobaum, West Virginia University, 304-293-2421,
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P116J090043**Policy Project on Atlantis Collaborative Team Interaction Virtual Environment**

U.S. Lead: DePaul University (Illinois)
Western Illinois University (Illinois)

EU Lead: Technical University Delft (Netherlands)
University of Strasbourg (France)

This project will study specific lessons learned and best practices across Atlantis academic consortia that offer dual degree education programs. Currently no process exists to capture lesson learned or best practices of trans-Atlantic academic consortia. The project will encourage collaboration and knowledge exchange and disseminate results.

FY 2009: \$76,000 (2 years)

Contact: Daniel Mittleman, DePaul University, 312-362-6103, danny@cdm.depaul.edu

P116J090044**Policy Project on High Performance Computing Higher Education**

U.S. Lead: University of Illinois, (Illinois)
The Pennsylvania State University (Pennsylvania)

EU Lead: The Cyprus Research and Educational Foundation (Cyprus)
German School for Simulation Sciences (Germany)
University of Wuppertal, (Germany)

This project will focus on new models and resources on the vital role of simulation to education and society. The project will develop policies for designing the best strategies for creating a WEB-platform with resources, information and collaboration spaces.

FY 2009: \$76,000 (2 years)

Contact: Danny Powell, University of Illinois, Urbana-Champaign, 217-244-0633,
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P116J090045
Policy Project on Aviation Education Enhancement

U.S. Lead: Dowling College (New York)
United States Federal Aviation Administration (Washington, D.C.)

EU Lead: University of Zilina (Slovak Republic)
Civil Aviation Authority (Czech Republic)

This project aims to improve university and air transport industry cooperation with the goal of providing higher quality of education through a comparison of the similar academic and vocational training systems utilized throughout the United States and the European Union. The project will focus on substantial safety, cost-effectiveness, capacity, environmental, and security benefits that are needed to cope with changed requirements of aviation authorities.

FY 2009: \$75,600 (2 years)

Contact: Ryan Leick, Dowling College, 631-244-1903, LeikR@dowling.edu

P116J090052
Mobility Program in Excellence in Complex Analysis and PDE Mobility

U.S. Lead: University of Arkansas (Arkansas)
University of Pittsburgh (Pennsylvania)
Temple University (Pennsylvania)

EU Lead: University of Bologna (Italy)
University of Paris VII (France)
Universite de Renne (France)

This mobility program will focus in mathematics and support semester-long periods of study and training abroad in the field of Partial Differential Equations (PDE) and complex analysis. The project will ensure transparency and consistency in portability of credits.

FY 2009: \$48,000

Total FIPSE Funding: \$192,000 (4 years)

Contact: Luca Capogna, University of Arkansas, 479-575-5637, lcapogna@uark.edu

P116J090056

Policy Project on Homeland Security Education at the International Level

U.S. Lead: University of Central Missouri (Missouri)
Virginia Commonwealth University (Virginia)

EU Lead: Vaxjo University (Sweden)
Northumbria University (United Kingdom)

The project will benchmark the best practices in academic Homeland Security curricula and also focus on coverage of comparative and international Homeland Security issues. Additionally, the project will develop a Web-based Global Homeland Security Education Network and establish an academic e-journal.

FY 2009: \$73,618 (2 years)

Contact: Donald Wallace, University of Central Missouri, 660-543-8913, Wallace@ucmo.edu

P116J090057

Mobility Program in Urban and Regional Development

U.S. Lead: University of Illinois, (Illinois)
Arizona State University (Arizona)
University of California, Irvine (California)
University of Florida (Florida)

EU Lead: University of Groningen (Netherlands)
Humboldt University (Germany)
Vienna University of Economic & Business Administration (Austria)

This mobility program aims to improve the knowledge base, skills, and international understanding of students in urban and regional development by means of specialized curriculum focused around international exchange and guided comparative research. The program will provide feedback and assistance to students on research design, methods, and interpretation of results.

FY 2009: \$51,740

Total FIPSE Funding: \$194,000 (4 years)

Contact: Edward Feser, University of Illinois, 217-244-6767, feser@illinois.edu

P116J090058

Graduate Dual Degree Program in Micro/Nanotechnology

U.S. Lead: University of California, Irvine (California)

EU Lead: Technical University Darmstadt (Germany)
University of Sciences and Technology, Lille (France)

This graduate dual degree program will study a range of micro- and nano-technologies, as well as the participating countries' cultures and languages.

FY 2009: \$108,000

Total FIPSE Funding: \$420,000 (4 years)

Contact: Jean-Luc Gaudiot, University of California, 949-824-2644, gaudiot@uci.edu

P116J090062

Undergraduate Dual Degree Program in Nursing

U.S. Lead: Washburn University of Topeka (Kansas)

EU Lead: Mikkeli University (Finland)
Queen's University (United Kingdom)
Szeged University (Hungary)

This undergraduate dual degree program will focus on preparing student nurses for more universal practice in the EU and the United States. The program will also focus on understanding the current and future trends for globalized nursing care. Project activities include professional and clinical nursing theory and practice, language and cultural training, and additional required courses.

FY 2009: \$108,000

Total FIPSE Funding: \$420,000 (4 years)

Contact: Ellen Carson, Washburn University of Topeka, 785-670-1212,
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P116J090063

Mobility Program in Applied International Monetary Economics

U.S. Lead: Clemson University (South Carolina)
University of California, Santa Cruz (California)

EU Lead: University of Maastricht (Netherlands)
Catholic University of Louvain (Belgium)
University of Orleans (France)

This mobility program will focus on the growing field of international monetary policy. It will also offer cultural and linguistic preparation, and field trips to European Union and United States institutions that focus on monetary policy.

FY 2009: \$48,000

Total FIPSE Funding: \$192,000 (4 years)

Contact: Raymond Sauer, Clemson University, 864-656-3969, sauerr@clemson.edu

P116J090064

Graduate Dual Degree Program in Technology, Innovation, and Sustainability

U.S. Lead: Purdue University (Indiana)

EU Lead: Dublin Institute of Technology (Ireland)
Polytechnic University of Catalonia (Spain)

This graduate dual degree program focuses on the place and impact of innovation and sustainability in the manufacturing process. The program will develop critical skills for making individuals and enterprises more competitive, responsible, and prepared for international work and global citizenship.

FY 2009: \$107,937

Total FIPSE Funding: \$420,000 (4 years)

Contact: Gary Bertoline, Purdue University, 765-494-6875, bertoline@purdue.edu

P116J090069

Undergraduate Dual Degree Program in International Economics and Modern Languages and Economics and Management

U.S. Lead: Georgia State University (Georgia)

EU Lead: University of Venice (Italy)
University of Versailles (France)

This program will help to establish a dual undergraduate degree program in International Economics and Modern languages between the partner institutions. Students will complete the requirements for the Economics and Management degree plus integrate language mastery in Italian and English, and intermediate proficiency in French.

FY 2009: \$107,942

Total FIPSE Funding: \$409,948 (4 years)

Contact: Richard E. Keatley, Georgia State University, 770-938-3605, rekeatley@gsu.edu

P116J090073**Mobility Program in Global Work with Immigrant Kids**

U.S. Lead: University of Maine (Maine)
Providence College (Rhode Island)
University of North Carolina, Greensboro (North Carolina)
North Carolina Agricultural and Technical State University (North Carolina)

EU Lead: Plantijn Hogeschool (Belgium)
University College Peter Sabroe (Denmark)
Ramon Lull University (Spain)

This mobility program will address training needs in Europe and the United States in direct care settings with children. The program will also create a certificate curriculum with a focus on work with immigrant children. It will develop new Web-based field manuals and a glossary of key knowledge related to immigrant children.

FY 2009: \$51,491

Total FIPSE Funding: \$193,979 (4 years)

Contact: Gail Werrbach, University of Maine, 207-581-2386,
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P116J090074**Policy Project on International Continuing Education Program Benchmarking Based on an EFQM Quality Process**

U.S. Lead: Georgia Technical University (Georgia)
University of Wisconsin (Wisconsin)
University of Michigan (Michigan)

EU Lead: Technical Korkeakoulu, Dipoli (Finland)
University of Porto (Portugal)
Imperial College (United Kingdom)

The project will focus on expanding methodologies for identifying and benchmarking enablers of quality in continuing engineering education programs. The project will define, build, and collect processes and systems that allow for validated benchmark data to be used for self-assessment and improvement. Additionally, the program will provide and extension of the benchmarking and surveying tools necessary for all continuing professional educational providers.

FY 2009: \$75,816 (2 years)

Contact: Nelson Baker, Georgia Tech Research Corporation, 404-894-9658,
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P116J090076

Mobility Program in Transatlantic Biosystems Engineering Curriculum and Mobility

U.S. Lead: Virginia Polytechnic University (Virginia)
University of Illinois (Illinois)

EU Lead: University College Dublin (Ireland)
Agricultural University of Athens (Greece)
Polytechnic University of Madrid (Spain)

This mobility program will focus on curriculum development within the discipline of Biosystems Engineering. Activities will include indentifying core threads of the discipline, creating a database of multinational examples that will globalize core Biosystems Engineering courses, and developing several innovative courses. Mobility experiences will enhance the global perspectives of student and faculty.

FY 2009: \$48,000

Total FIPSE Funding: \$192,000 (4 years)

Contact: Mary Leigh Wolfe, Virginia Polytechnic Institute and State University, 540-231-6092, mlwolfe@vt.edu

P116J090083

Policy Project on Examining Transatlantic Exchanges in Engineering

U.S. Lead: Virginia Polytechnic University (Virginia)
University of Kentucky (Kentucky)
University of Maryland (Maryland)

EU Lead: Polytechnic University of Milan (Italy)
Technical University of Vienna (Austria)
Lund University (Sweden)

This project will be a detailed study of the different schemes utilized by engineering programs in both the EU and the United States to provide guidance for emerging transatlantic projects and produce benchmark criteria. The project will also work closely with representatives from industrial and professional partners that are capable of providing objective and reliable feedback.

FY 2009: \$76,000 (2 years)

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