

1. Project Proposal Information

Project Proposal Title	Virtual International Laboratory in Electron Microscopy for Advanced Materials" (VILEMAM)
Project Proposal Acronym	
Call Identifier	FP7-NMP-2012-CSA-6 FP7-NMP-2012-SME-6 FP7-NMP-2012-LARGE-6 FP7-NMP-2012-SMALL-6
Topic(s)	NMP.2012.1.4-4 Evaluation of EC communication and dialogue on research and innovation in nanotechnologies and design of future needs for the EU (industry and society)
Funding Scheme	
Keywords	virtual laboratory, electron microscopy, material science
Abstract (Max. 2000 words)	<p>The objective of this project is to unite within the region the capabilities of a number of scientific schools including the NTUU KPI Physics of Metals department for solving efficiently problems of physics and material science in the field of modern Nanomaterials and nanotechnologies by using electron microscopy methods.</p> <p>The Memorandum of understanding between the Black Sea Universities Network- BSUN – and NTUU «KPI» signed Sept. 6 2006 also defines this objective:</p> <p>A special emphasis will be put on the cooperation in Advanced Nanomaterials, nanotechnologies and investigation techniques, particularly, – electron microscopy (TEM, SPM, AFM, LEED, HEED, others).</p>
Project Description (Main Work Packages)	<p>The objectives of the project is to carry out technical seminars, workshops, short term exchange schemes, thematic summer schools and/or similar events within the field of materials science, including nanomaterials, electron microscopy and others modern structure techniques investigation of Advanced Nanomaterials;</p> <p>to develop principles of creating, functioning and management of the international virtual scientific laboratory;</p> <p>to develop international exchange and</p>

	scientific collaboration in Black Sea region using virtual laboratory's mechanisms of functioning; to prepare – in future - competitive international scientific projects and promotion for European topics calls; to support an academic mobility (scientists, teachers, students) in Black Sea region; to be ready (after the project) to solve ultramodern complex problems in the field of electron microscopy etc., techniques and Advanced Nanomaterials, Nanotechnologies that could not be solved by single universities' teams.
Current Consortium (Partners, Organisation Types)	
Deadline for Responses	November 2011, January 2012

2. Profile of the Partners Sought

Organisation Type	Research or Educational
Required Skills and Expertise	Processing and interpretation of collected experimental data and results of computer modeling.
Role in the project	Cooperation in developing virtual laboratory,
Other Requirements	

3. Project Proposer Information

Name of the Organisation	National Technical University of Ukraine "Kiev Polytechnic Institute"
Organisation Type	Education
Country	Ukraine
Fields of Activity	thin metal layers, diffusion, nanophase materials
Contact Person	Sergey Sidorenko
Position in the Organisation	The Head of Metal Physic Department

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Previous FP Projects Participated	No