

## 1. Project Proposal Information

<b>Project Proposal Title</b>	Formation of nanodimensional film of Co, Mn, Ni, Ti, Ta, Pt transition metal silicides on monocrystalline silicon with controlling thermal stability and resistivity using diffusion-controlling membranes
<b>Project Proposal Acronym</b>	
<b>Call Identifier</b>	FP7-NMP-2012-CSA-6 FP7-NMP-2012-SME-6 FP7-NMP-2012-LARGE-6 FP7-NMP-2012-SMALL-6
<b>Topic(s)</b>	NMP.2012.2.2-2 Materials for data storage
<b>Funding Scheme</b>	Small or medium-sized collaborative projects
<b>Keywords</b>	nanodimensional magnetic and thermoelectric film, silicide film
<b>Abstract (Max. 2000 words)</b>	The project aims is to establish the regularities of formation of nanoscale films silicides of Co, Mn, Ni, Ti, Ta, Pt thermally stable in the range 400-1000°C on single-crystal silicon Si (001).
<b>Project Description (Main Work Packages)</b>	It is planning to investigate the conditions of diffusion formation of thermally stable nanoscale monosilicide Ni films. It is proposed to solve this by doping the nickel film during the co-deposition of nickel and platinum, or by the use of additional layers as diffusion barriers and sources of alloying elements to optimize nickel and silicon interdiffusion rate during annealing. As regulators of the diffusion processes Ti, C, Pt etc. layers will be used.
<b>Current Consortium (Partners, Organisation Types)</b>	No
<b>Deadline for Responses</b>	November 2011, January 2012

## 2. Profile of the Partners Sought

<b>Organisation Type</b>	Research or Educational
<b>Required Skills and</b>	nanodimensional magnetic and thermoelectric film, silicide

<b>Expertise</b>	film
<b>Role in the project</b>	Cooperation in investigations
<b>Other Requirements</b>	

### 3. Project Proposer Information

<b>Name of the Organisation</b>	National Technical University of Ukraine "Kiev Polytechnic Institute"
<b>Organisation Type</b>	Education
<b>Country</b>	Ukraine
<b>Fields of Activity</b>	nanodimensional magnetic and thermoelectric film, silicide film
<b>Contact Person</b>	Makogon Yuriy
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<b>Previous FP Projects Participated</b>	No