

REF:

DATE:

<input type="checkbox"/> I have a project idea. I want to be a a project coordinator and I am looking for project partners. <i>Please fill in Part A, B and C.</i>
<input type="checkbox"/> I have a project idea; but I don't want to be a project coordinator. I am looking for a coordinator and/or project partners. <i>Please fill in Part A, B and C.</i>
<input checked="" type="checkbox"/> I don't have a project idea; but I want to participate in a project. <i>Please fill in only Part A.</i>

Organisation Name	Institute for Space Sciences (INFLPR)
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Type of the Organisation	Please select one from the drop-down list
Organisation Expertise	<p>The Computing Research Group consists people in the Space Science Laboratory who are working in the area of GRID computing and High Performance Computing (HPC).</p> <p>Computational grids offer seamless access to distributed computational resources, and heterogeneous hardware, operating systems, and system configurations.</p>

	<p>1. The main GRID activities of our group are:</p> <ul style="list-style-type: none">• Providing computing resources for The ALICE Collaborations from CERN;• Provides computing facilities for ESA missions in RoISS (PLANK, CLUSTER 2, VENUS-EXPRESS)• Testing, gridification and implementation the new GRID technologies <p>Accumulated experience in related-GRID topics:</p> <ul style="list-style-type: none">• Novel applications• eScience applications• Virtual laboratories• Semantic and knowledge based grids• Collaborative Grids and virtual organizations• High Performance and high throughput computing on grids <ul style="list-style-type: none">• Grids in education• Grid methods and middleware: <p>scheduling</p> <ul style="list-style-type: none">• Tools for grid development: monitoring and• Distributed dynamic resource management• Grid- and web-services• Information management• Protocols and emerging standards• Peer to peer and internet computing• Pervasive computing• Grid Security• Gridification applications• Mobile Grid• Relocation Grid resources <p>2. HPC experience:</p>
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	<ul style="list-style-type: none"> - Data minning technique; - Geometric modeling of natural surfaces(described by fractal geometry) for the evaluation of the scattered field of electromagnetic waves from this surfaces and for the study of different properties of composite materials; - The study of N-body problems in nuclear physics at low, high energies and astrophysics; - Monte Carlo simulations of nucleus - nucleus interaction in high energy physics, etc. - Benchmarking studies; - Running parallel computing algorithms for astrophysics, cosmology and HEP (High Energy Physsics).
<p>Areas of Interest in Space Work Programme 2010</p>	<p>Activity: 9.1 Space-based applications at the service of European Society</p> <p>Topics:</p> <p>SPA.2010.1.1-01 Stimulating the development of downstream GMES services</p> <p>SPA.2010.1.1-04 Stimulating the development of GMES services in specific areas</p> <p>SPA.2010.1.1-05 Contributing to the “S” in GMES – Developing pre-operational service capabilities for Maritime Surveillance</p> <p>SPA.2010.1.1-06 Coordination of national activities for land monitoring</p> <p>SPA.2010.1.1-07 Fostering downstream activities and links with regions</p> <p>Activity: 9.2. Strengthening the foundations of Space science and technology</p> <p><i>Area 9.2.1: Research to support space science and exploration</i></p>

Topics:

SPA.2010.2.1-03 Exploitation of space science and exploration data

Area 9.2.3: Research into reducing the vulnerability of space assets

Topics:

SPA.2010.2.3-01 Security of space assets from space weather events

Before completing this section please refer to the corresponding Call information and Work Programme which includes topic, scope, expected impact, funding scheme and any other related information on the following link:

<http://cordis.europa.eu/fp7/dc/index.cfm>

FP7 Theme	SPACE
Call Identifier	
Topic in the Work Programme	
Proposal Acronym	
Proposal Title	
Funding Scheme	
Description of the Proposal	<i>(max. 1500 characters)</i>
Keywords	

Role in the Project	<input type="checkbox"/> Technology Development <input type="checkbox"/> Dissemination <input type="checkbox"/> Research <input type="checkbox"/> Demonstration <input type="checkbox"/> Training <input type="checkbox"/> Other, please specify <input type="checkbox"/> Management
Type of organisation sought	<input type="checkbox"/> University <input type="checkbox"/> Non Governmental <input type="checkbox"/> Research Organisation Organisations <input type="checkbox"/> Industry <input type="checkbox"/> Public Organisation <input type="checkbox"/> Industry - SME <input type="checkbox"/> Other, please specify
Expertise required	
Country	<input type="checkbox"/> Any country

	<ul style="list-style-type: none"><input type="checkbox"/> EU Member States<input type="checkbox"/> Associated Countries<input type="checkbox"/> International Cooperation Partner Countries<input type="checkbox"/> Other, please specify
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