



7th FRAMEWORK PROGRAMME PARTNER SEARCH

Contact Details		
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Previous FP experience	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "yes", please indicate project acronyms: FP5 Measurement and testing evaluation)	

Area or Topic of interest	
Call identifier	FP7-SPACE-2010-1
Topic/s (as stated in the Work Programme)	<p><i>Activity 9.2 Strengthening the foundations of Space science and technology</i></p> <p><i>Area 9.2.2: Research to support space transportation and key technologies.</i></p> <p>SPA.2010.2.2-01 Space technologies. Mechanisms & tribology: dry lubricated harmonic drives for space application</p>

Proposal at a Glance	
Proposal name	Contact-less harmonic drives
Subject	To develop a new kind of harmonic drive

Profile of Partner(s) Searched	
Required skills and expertise	<p>Expertise in soft magnetic materials. Able to design and manufacture soft magnetic pieces.</p> <p>Expertise in superconducting materials. Or/and Ability to manufacture superconducting pieces. Or/and Facilities for Cryogenic testing .</p>

Description of the Work to be Carried Out by the Partner(s) Sought	<p>To select the soft magnetic material for some components of the ensemble. To cooperate on the mechanical design of these components and to estimate their behaviour under different conditions. To manufacture the pieces and provide them for the prototype. To cooperate on the evaluation of the aging of these components.</p> <p>To select the superconducting material for some components of the ensemble. To cooperate on the mechanical design of these components and to estimate their behaviour under different conditions. Or/and To manufacture the pieces and provide them for the prototype. Or/and To provide the facilities for a cryogenic testing Or/and To cooperate on the evaluation of the aging of these components.</p>
Type of Partner(s) Sought	Company, R&D institution or University.