

Would you like us to try to find interested companies with your projects ideas, please send us a short project abstract (by the 7th October) which we will display on this webpage under the match-making section.

The match-making concept is only designed to help you to find partners, a coordinator, technology,...

This webpage can be found at: <http://www.aeroportal.eu/ap3callfp7workshop.html>

Project Ideas	
Proposers of the idea:	EAST-4D Carbon Technology GmbH
Type of Organisation: (SMEs, University, Research Center,...-)	SME
Call identifier:	FP7-AAT-2010-RTD-1; FP7-AAT-2010-RTD-RUSSIA; FP7-NMP-2010-CSA-4; FP7-NMP-2010-SMALL-4; FP7-NMP-2010-SME-4; FP7-SST-2010-RTD-1; FP7-TPT-2010-RTD-1
Topics called:	Transport (including Aeronautics), new Production Technologies
Funding Instruments:	CP-FP (Small or Medium scale focused research) <input checked="" type="checkbox"/> CSA-CS (Coordinating) <input type="checkbox"/> CSA-SA (Supporting) <input type="checkbox"/>
Project Title:	Advanced machining concepts for CFRP structures
Project objectives:	Increase of CFRP machining effectiveness and quality
Project abstract: Be concise! Avoid abbreviations (Max. 3000 characters incl. spaces. Any exceeding words will be discarded.)	The machining of metals has been optimised for decades and resulted in a detailed process understanding. For CFRP different fracture mechanics and different technology approaches are required to fully understand the machining process. Based on finite element process simulation of the cutting process the tooling design, materials and machining strategy should be analysed with regard to tooling wear, CFRP surface and geometrical quality as well as economic considerations. These theoretical analyses should be validated by extensive experimental testing. Next to the tooling optimisation also the machining parameters as e.g. cutting speed, turning direction, torque should be evaluated regarding their influence on the above mentioned parameter.
Project structure (WPs, duration,...) *	WP 1: selection of demonstrator material and reference process WP 2: process simulation and determination of required material properties WP 3: experimental data analysis WP 4: optimisation of tooling and process WP 5: demonstration of new process and transfer of results
Estimated budget *	
Project Coordinator	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
What are you looking for (a coordinator, partners, technology, other,...)? Please specify.	CFRP tooling manufacturer (milling and drilling tools preferred); coordinator, simulation of machining process partner
The person identified above confirms that the data provided in this form are correct and that permission is given to publish this data in the MatchMaking table located in the Workshop page.	Yes <input checked="" type="checkbox"/>

* Not Mandatory