

FP7 INFORMATION DAYS for Research PPPs on 11+12 July 2011

Template project ideas

Contact person			
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Project information			
PPP <input checked="" type="checkbox"/> Factories of the Future <input type="checkbox"/> Energy-efficient Buildings <input type="checkbox"/> Green Cars			
Topic/Title	Expert Sytem For Plastic Injection Workcell Predictive Maintenance		
Project idea, objectives	<p>To develop a expert system based on data processing and artificial intelligence to predict failure on an injection workcell.</p> <p>The objective is to improve productivity and reduce machine stoppages by improving maintenance operations, maintenance scheduling and by avoiding expensive repair cost</p> <p>The projet can be established at the stage of the workcell. A production workshop is organised as combination of workcells. So a machine stoppage influences the productivity of the whole workcell.</p> <p>The key topics will be :</p> <ul style="list-style-type: none"> -To identify parameters which govern failure to schedule early maintenance operations -To understand relationships between process variables and potential failure -To integrate embedded device or to reuse already integrated devices -To develop datamining or artificial intelligence methods 		
Partner search description			
Type = Company/SME/Research organisation/university			
+ desired skills/knowledge			
Partner 1	End User(s) in plastic injection molding - SME that has issues in maintenance		
Partner 2	SMEs, suppliers of injection workcell devices (robot, temperature controller, dessicator, ...)		
Partner 3	University with knowledge in artificial intelligence or expert system		