

**Aquitaine –Karnataka collaboration
Scientific Project for Pre-PhD student exchange**

Scientific Proposal

Project Title	Implementation of PLM (Product life cycle management) in Small and Medium Enterprises for optimised Production.	
Scientific domain	Mechanical Engineering, Design Engineering, Production Engineering.	
Summary (ca. 10 lines)	<p>Product Life cycle Management (PLM) is the process of managing the whole life cycle of a product starting from generating an idea, concept description, business analyzes, product design and solution architecture and technical implementation, to the successful entrance to the market, service, maintenance and product improvement. At present, a wide range of stakeholders including consumers, regulators, shareholders and public bodies are demanding that companies address product management through all life cycle in a more comprehensive and sustainable way.</p> <p>In this project, a PLM model is designed, developed and implemented to small and medium enterprises so that production is optimised.</p>	
Student profile wished	Mechanical Engineering, Design Engineering, Production Engineering.	
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Timing & duration for project (give approximate ranges)	From 3 to 6 month, any time of the year	
Selected References	<p>J. Le Duigou*, A. Bernard*, N. Perry**, J.C. Delplace*** *IRCCYN - UMR 6597 **I2M - UMR 5295 *** CETIM Generic PLM system for SMEs: Application to an equipment manufacturer. International Journal of Product Lifecycle Management.</p> <p>C.Y. Huang, T.T. Yang, W.L Chen, S. Y. Nof Reference Architecture for Collaborative Design International Journal of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844 Vol. V (2010), No. 1, pp. 71-90</p>	

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