

Aquitaine –Karnataka Collaboration Scientific project for Pre-PHD Student Exchange

Scientific proposal

Project Title	The Effectiveness of polymer based Fused Deposition Modeling component Through superior coating technology	
Scientific Domain	Manufacturing science	
Summary 10 lines	The Rapid prototyping component pose certain limitations with respect to the coating technique, as the optimization of coating method will be very useful for certain applications like EMI/EMC conditions. The present work aims to develop and evaluate Rapid prototyping (FDM) processed component involving advanced coating technique like cold spray, electro less coating, sputtering etc, which may give rise to a product having superior EMI/EMC characteristics, followed by the evaluation of physical, mechanical and electrical properties. The FDM product finds application in electro-mechanical industry like Defense sector, telecommunication industry etc. The student will be involved both in the development of the prototype component as well as comprehensive evaluation work.	
Student profile wished	Mechanical Engineering; Production Engineering; Materials Process	
Supervisor Name	Rajesh.R	
Supervisor @ and phone	rajesh88011@yahoo.co.in	Tel: 8197333748
Institute	Sambhram institute of technology	
Director Name	Dr.H.G.Chandrakanth	
Director @ and phone	saitprincipal@gmail.com	9900001936/08023643618
Timing and Duration for Project	6 to 8 months, any time of the year	
Representative Reference	U.S. Patent Application Publication No. WO2014152911 A1: Methods and system for connecting inter-layer conductors and components in 3d structures, structural components, and structural electronic electromagnetic and electromechanical components/devices	

Contact Aquitaine: Erick Dufourc @: e.dufourc@cbmn.u-bordeaux.fr tél: +33 5 4000 6818 Contact Karnataka: Dipankardas Sarma	@: sarma@sscu.iisc.ernet.in tél: +91 80 2293 2945 http://www.cbmn.u-bordeaux.fr/aquitaine-karnataka-exchange?lang=2
---	---