

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

Scientific Proposal

Project Title	Numerical Investigation of Effect of Process Parameters for Sand Casting	
Scientific domain	Modelling and Process Simulation	
Summary (ca. 10 lines)	<ul style="list-style-type: none"> • Numerical simulation and analysis of castings save time and effort involved vis-à-vis conventional shop floor trials • Various process parameters like pouring time, pouring temperature, knock-out time in sand casting play a significant role on the quality of castings • This study aims at investigating the effect of various process parameters on the quality of castings • Casting simulation software, SOLID Cast will be used to carry out the studies and experimentally validated at the University's foundry 	
Student profile wished	Mechanical Engineering; Production Engineering; Materials Process	
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Institute/laboratory/industry (full address)	Faculty of Engineering & Technology M.S Ramaiah University of Applied Sciences # 470-P, Peenya Industrial Area, 4th Phase, Peenya, Bangalore – 560058	
Director Name Institute/laboratory/industry	Dr. H.K. Narahari	
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Timing & duration for project (give approximate ranges)	6 Months	
Representative References		

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