

2016 SATU Joint Research Scheme Program

Host Application Form

Date: 2016 /04 /11 (year /month/day)

1. Host University

Indian Institute of Technology Bombay

2. Host Unit

Rapid Manufacturing Laboratory, Department of Mechanical Engineering

3. Joint Research Project Title

Rapid Manufacturing of Metallic Objects

4. Principal Investigator

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Nationality	Indian	Gender	<input checked="" type="checkbox"/> M	<input type="checkbox"/> F
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5. Co- PI from the same unit – If any

Passport Name				
Nationality		Gender	<input type="checkbox"/> M	<input type="checkbox"/> F
Address				
Telephone	(Office)		(Home / Mobile)	
Fax Number		E-mail		

6. Project Details

Project Description	<p>We explore hybrid (direct as well as indirect) routes of physical realization of metallic objects. Our research interests are:</p> <p>- Hybrid Layered Manufacturing (HLM): A cladding</p>
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SATU Presidents' Forum

of Southeast and South Asia and Taiwan Universities
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(MIG/TIG/Laser) based process. Use of 5-axis deposition is our unique contribution.

- Segmented Object Manufacturing (SOM): SOM can convert a block of polystyrene into the desired shape through a combination of 3-axis CNC machining, hot-wire slicing and gluing. Segmentation of the block is through visibility considerations. The foam patterns produced using SOM are used for Rapid Foam Casting.
- Sand 3D Printing: CO2 will be printed over layers of sand and Solium Silicate mixture. This will be the first machine to print gas.
- Design for Additive Manufacturing (DFAM).

7. Acknowledgement (Signed by the President or SATU representative to show recognition)

Name Prof. Rajiv Dusane
title Dean - International Relations
Rajiv Dusane (signature)
Date: 2016 / 05 / 16 (yyyy/mm/dd)

Please email satu@email.ncku.edu.tw before 2016.4. 29(Fri.) for application with the subject line: <2016 SATU JRS host application –School Name>. Thank you.