

Welcome to Research World!

AMMP team is committed to making genuine contribution to the Advanced Technology community by providing world-class research !

Research Activities

AMMP CENTRE places due importance to research activities and always strive to be at the frontier of knowledge. Our approach to research is divided into two: i) Market-Driven Research and ii) Fundamental Research. The steer towards market-driven strategy would enable the Centre to conduct research work which are more relevant to the needs of the industry and end-users. Furthermore, a market driven strategy would increase the commercialization success of research projects. Currently, AMMP CENTRE is handling several projects which covers a wide spectrum of the research and development stage. A number of projects are still at the fundamental research stage while there are also work which are now nearing towards pre-commercialization. Although the drive of the majority of the research is towards product development and commercialization, a portion of the Centre's topmost intellectual resources is still being allocated to pioneering fundamental research activities such as the work on Functionally Graded Material and Microwave Sintering.

The Centre is currently engaged in the following research projects:

1. Minimal Quantity Fluid Delivery System For Milling Operation
(TechnoFund RM 1,790,000)
2. Investigation into Minimal Cutting Fluid Technique in High Speed Milling Operation
(ScienceFund RM 129,977.00)
3. Design and Development of a Miniaturized Integrated Liquid Cooling System
(ScienceFund RM 184,880)
4. Development of Functionally Graded Materials by Combustion Synthesis of Powder Mixtures in Ti-C-Al System (FRGS grant RM 90,000.00)
5. Fundamental Study on the Mechanism of Microwave Sintering for Metallic Materials
(FRGS grant RM 60,000.00)
6. Development of microwave sintering technique integrated with ceramic crucible for metallic material
(PJP fund RM 66,500.00)
7. Feasibility study of glass milling by using CNC machining technique.
(PPP fund RM 2700)
8. Performance evaluation of powder metallurgy components.
(PPP fund RM 2500)

9. Evaluation of wetting behavior of lead-free solder on various substrate materials

(External fund RM 20,000.00)

10. Fundamental study on silicone thermal behavior

(External fund RM 5,000.00)

11. Design and Development of Hydraulic Regenerative Braking Device for Automotive Vehicles

(ScienceFund RM 291,900)

12. Development of Novel techniques of microwave sintering for metallic materials.

(PPP fund RM 30,000)

13. Microwave Hybrid Sintering for TiN base Alloy

(PPP fund RM 10,000)