

Research Group Profile

Advanced Manufacturing Research Group (AMRG)

NICHE AREA

- Machining
- Sustainable Manufacturing
- Welding
- Additive Manufacturing
- Casting & Moulding Technology
- Product Design & Development
- CAD/CAM/CAE
- Plasma Technology
- Vacuum Casting
- Tissue Engineering

MEET OUR TEAM

RESEARCH GROUP LEADER

Assoc. Prof Dr. Aini Zuhra
Binti Abdul Kadir

RESEARCH GROUP MEMBER

Ts. Dr. Mohd Azlan Bin Suhaimi

RESEARCH GROUP MEMBER

Prof. Dr. Muhamad Zamri
Bin Mat Saman

RESEARCH GROUP MEMBER

Prof. Dr. Izman Bin Sudin

RESEARCH GROUP MEMBER

Prof. Ts. Dr. Safian Bin Sharif

RESEARCH GROUP MEMBER

Assoc. Prof Dr. Norizah
Bt Hj Redzuan

RESEARCH GROUP MEMBER

Assoc. Prof Ts. Dr. Khairur Rijal
Bin Jamaludin

RESEARCH GROUP MEMBER

Assoc. Prof Dr. Masine Bte Md Tap

RESEARCH GROUP MEMBER

Dr. Mohd Faridh
B. Ahmad Zaharuddin

RESEARCH GROUP MEMBER

Ts. Zulkepli Bin Haji Muhamad

RESEARCH GROUP MEMBER

Ts. Rozaimi Bin Mohd Saad

RESEARCH GROUP MEMBER

Mr. Khidzir Bin Zakaria

RESEARCH GROUP MEMBER

Ts. Dr. Muhd Ikmal Isyraf
Bin Mohd Maulana

RESEARCH GROUP MEMBER

Ir. Ts. Dr. Nor Hasrul Akhmal
Bin Ngadiman

RESEARCH GROUP MEMBER

Dr. Najlaa Nazihah Binti Mas'ood

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SERVICES & FACILITIES

- CNC and CAD/CAM Facilities and Training (3 & 5-axis Milling, Turning, EDM Wire Cut & Die Sinking, CAD/CAM)
- CMM Measurement & Inspection
- 3D Printing Services
- Product Fabrication
- Performance of Machinability Studies
- Design for Six Sigma
- Design of Experiment & Taguchi Techniques
- Life-Cycle Assessment

FLAGSHIP RESEARCH & COMMUNITY PROJECT



Plasma Researcher
with
Mushroom Entrepreneur

Machining
Performance
Evaluation



TDCS Project
in collaboration
with
Medical Experts

TVET Training
to Kluang
Vocational
College



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RESEARCH ACTIVITIES & PROJECT HIGHLIGHTS

Investigation of tool wear mechanism in machining of aerospace materials for developing an intelligent cutting tool monitoring system

Optimization of the Materials Composition and Process Parameters To Enhance Mechanical Properties of the Developed Tissue Engineering Scaffold and Cell Culture Study

Development of a metal 3D printer (UTM RA Iconic Grant)

Medical device for the treatment of mental illness for Malaysian patient

Evaluation of high speed machining and micromachining of bulk aerospace material fabricated by direct metal laser deposition process (UTM High Impact Research Grant)

Cold plasma development for rice grains and mushroom spawn treatment

Additive Manufacturing framework based on modified TRIZ-AM principles for complex product design and development