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Preface

As the editor-in-chief, I am delighted to present Issue 4, Volume 2, 2025 of the Malaysian Journal of Bioengineering and Technology (MJBT). The December 2025 issue reflect ongoing progress in engineering design, materials processing, and sustainable mobility. One article introduces the design of an ultrasonic cutting horn optimized for robotic thermoplastic trimming, highlighting improved precision and automation potential in manufacturing. Another investigates how heat-treatment conditions influence the friction behaviour of Aluminium 6063 through ring compression tests, offering insights relevant to forming processes and lubrication control. The final paper examines the design and efficiency of a renewable-energy-powered demonstration vehicle propulsion system, focusing on energy conversion and performance optimisation. Together, these contributions showcase practical engineering innovations with applications in automated production, materials engineering, and green transportation, aligning with the journal's mission to advance technology-driven solutions.

The MJBT is also committed to supporting the National Biotechnology Policy 2.0, launched by the Malaysian government in September 2022. The policy outlines the strategic directions and initiatives to enhance the development and commercialisation of biotechnology in Malaysia. The MJBT hopes to contribute to this national agenda by disseminating high-quality research and fostering collaborations among local and international stakeholders. Starting in 2025, MJBT will publish four annual issues in March, June, September, and December.

I want to express my sincere gratitude to all the authors, reviewers, editorial board members, and staff who have contributed to the successful launch of this journal. I would also like to thank Universiti Malaysia Kelantan for its support and endorsement of this journal. Finally, I hope that the readers will find this journal useful and informative and that they will cite and take advantage of the publications in this journal.

Muhammad Azwadi Sulaiman
Editor-in-chief
Malaysian Journal of Bioengineering and Technology

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Acknowledgement for Reviewers

MJBET would like to acknowledge our peer reviewers, who are listed below, for their contributions. Their time and expertise help us tremendously to improve the scientific quality of submitted manuscripts.

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Issue 4

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