



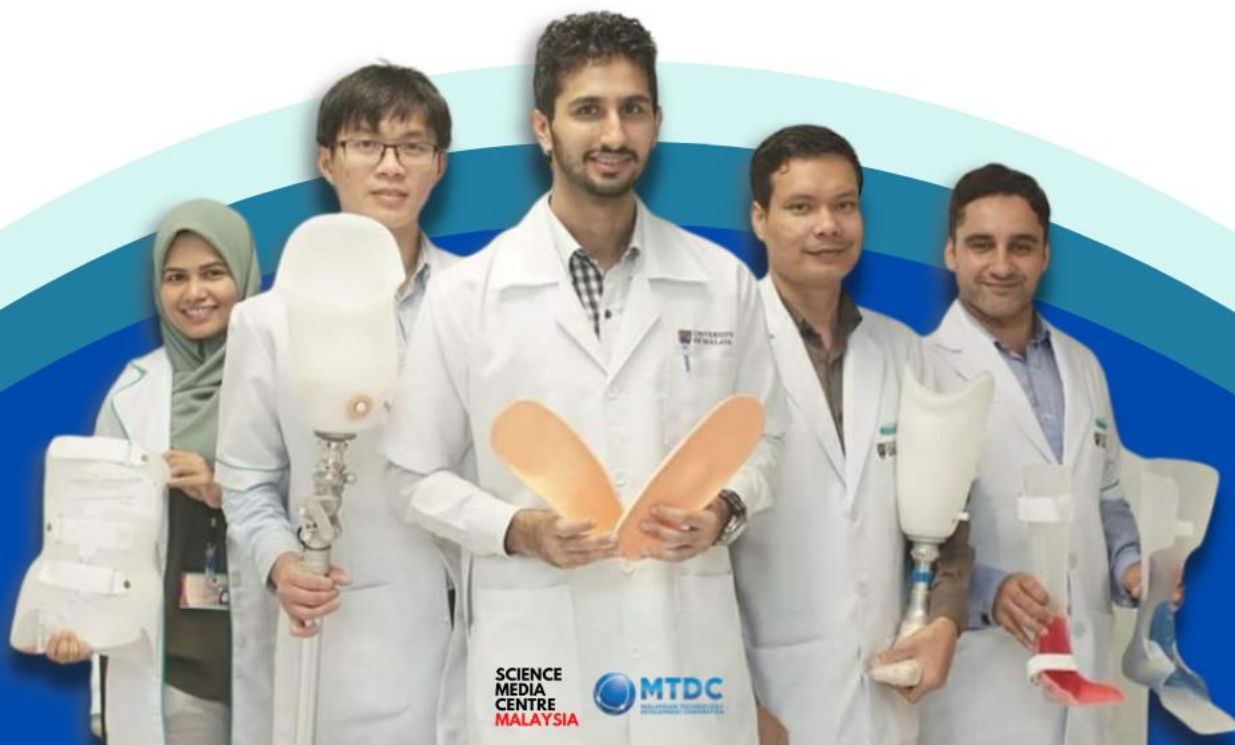
*From Research to Retail*



# BIOAPPS



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# ABOUT BIOAPPS



BioApps Sdn Bhd is a spin-off company of the University of Malaya, established under the Centre for Applied Biomechanics (CAB), Faculty of Engineering, on 17 May 2012.

It provides up-to-date prostheses (artificial limbs) and orthotic services to patients from Universiti Malaya's Medical Centre and all other public and private hospitals in Malaysia





# OUR ACHIEVEMENTS



## 1 Prosthetic & Orthotic (P&O) Research

BioApps' prosthetic and orthotic (P&O) research has won various international awards, including the World prestigious Forchheimer Prize in 2013 which is the only award given for P&O research by the International Society of Prosthetics and Orthotics (ISPO) based on one's contribution to the community at large. The award was the first to be won outside the US and Europe.



To date, Bioapps' P&O research results have been published in more than 100 high impact international ISI journals (multidisciplinary).

## 2 Bionic Love Expedition Project

The main local achievement of Bioapps Sdn Bhd is the design and manufacture of prosthesis for the "Bionic Love Expedition" project, intimately known as "Ekspedisi Kasih Bionik (EKB)".

In this project, Azman Yeop Akil, an amputee completed 1092 KM of continuous cycling over six states of Peninsular Malaysia, an achievement recognized by the Malaysia Book of Records.



# RoMicP™: Malaysia's First Robotic Prosthetic Foot



Improves the wearer by aiding them to walk better in different types of ground surfaces such as slope, stairs, walking on gravel, and sand.



Gives better heel strike and toe-off than normal non-robotic ankle-foot components.



Provides a better suspension system to the wearer mimicking the real human foot and helps the amputee walk and is active for a longer duration.



Easy donning and doffing, less friction to the amputated limb which avoids blister and ulcer, and provides better mounting which is good for an amputee who has an active lifestyle.



Driven by a sophisticated AI control system, combined with a high-quality prosthetic foot, the robotic ankle-foot prosthesis is aimed at empowering users towards greater self-reliance.



## Ellie, the baby elephant and her prosthesis leg



Not only do humans benefit from innovation in prosthetics, but animals too!



In 2019, BioApps Sdn Bhd designed an artificial prosthetic for a crippled elephant, Ellie.



The five-year-old female elephant lost her right foot after being trapped in a wire snare meant for wild boars in Jeli, Kelantan in November 2017



With the help of prosthetics, Ellie is now thriving at the Kuala Gandah National Elephant Conservation Centre, Lanchang, Pahang.

