



YOU'RE HOOPING TO HELP WA HEART RESEARCH



**EXTRAORDINARY
ENGINEER**



**HEART
HERO**



**BREAKTHROUGH
RESEARCHER**

Perkins heart research is driven by three audacious goals:



**Predict
heart attacks**
before they
happen



**Stop
amputations**
due to plaque
build up



**Create
heart valves**
that never
need replacing

MEET THE RESEARCHERS



Associate Professor Juliana Hamzah

developed a drug that can widen the tiniest vessels in your limbs which are blocked by plaque. This plaque can lead to Peripheral Arterial Disease (PAD) that can cause immobility, ulcers, gangrene and eventually amputation.

Dr Abdul Ihdayhid is taking your heart's 2D CT scans and transforming them into 3D digital models. With the use of AI, he can then predict cardiovascular problems with the aim of preventing heart attacks. Using these models, he can look for blockages and problems – before they become potentially life threatening.



Dr Elena Juan Pardo is a biomedical engineer. She builds her own 3D printers capable of printing human heart valves and other body parts. The material used allows your body to grow cells around her introduced scaffolding to create a new, healthier, permanent structure.