

Imperial College and NTU Spearhead \$20 Million Initiative for Medical Device Cybersecurity



By: [Waqas Arain](#) Published: January 8, 2024 at 5:35 am EST



Imperial College London and Nanyang Technology University (NTU) have embarked on a pioneering journey in the realm of cybersecurity for medical devices. The institutions have launched a \$20 million research programme, dubbed In-Cypher, aimed at fortifying the cyber defenses of medical gadgets such as pacemakers and other interconnected healthcare systems.

Safeguarding Critical Health Data

The initiative is the first project under Imperial College London's spanking new innovation center in Singapore. The primary objective is to shield not only implantable devices but also wearable technologies and healthcare systems that have increasingly become repositories of personal data with the advent and rise of personalized medicine.

Leaders of the Pack

At the helm of this groundbreaking research are Professors Anil Anthony Bharath from Imperial and Liu Yang from NTU's School of Computer Science and Engineering. They will be driving the development of a real-time monitoring mechanism that will keep tabs on the operating status and safety of medical devices.

Imperial's Global Expansion

Imperial Global: Singapore, the first of Imperial's overseas innovation centers, was recently established and will be housed at the Campus for Research Excellence and Technological Enterprise (CREATE) in NUS. This development signifies Imperial's ambition to foster collaboration within the region and expand its global presence with plans for additional centers in the US, Africa, and India. The center will focus on a multitude of research areas, including **healthcare cyber security**, pandemic preparedness, climate change, transition to net zero, and artificial intelligence.

In a world where technology is increasingly woven into the fabric of healthcare, the In-Cypher initiative comes as a timely and critical beacon of hope. The program's success will not only bolster the security of medical devices but also help establish Singapore as a global leader in the domain of health cybersecurity and AI for healthcare.

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