

## NTU, Max Planck to develop innovative healthcare solutions

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Nanyang Technological University, Singapore (NTU Singapore) and Germany's Max Planck Institute of Colloids and Interfaces (MPICI) have launched a joint lab to conduct research in artificial senses and develop innovative robotics and healthcare solutions.

These include skin-like wearable devices that not only monitor health and environmental conditions through smart sensors, but also enhance prosthetic devices with 'artificial sensing' capabilities.

This would allow prosthetic devices to restore rudimentary sensory functions for patients who have lost certain senses such as after accidents.

Leveraging on advanced materials, 'skin' electronics, biomedical engineering, and artificial intelligence (AI), the new Max Planck-NTU Joint Laboratory for Artificial Senses will also look into developing robotic technologies with sensory capabilities.

The joint lab will house 30 NTU and MPICI researchers and staff who will also explore mechanical sensing such as pressure and strain, and chemical sensing like smell and taste, and even physiological sensing that usually involves electrocardiograms (ECG).