

Awarded Projects for the 2025 India-Singapore Joint Call for Proposals on Digital Health/Medical Technologies & Green Hydrogen

S/N	Project Title	Singapore-Based Principal Investigators (PIs)	Singapore Host Institution	Partner Institution
1	Next-generation polymer membranes for sustainable green hydrogen production	Dr Satyasankar Jana	A*STAR	
2	MOSIAC: Mobile phone-based Multimodal Optical imaging system with Structured Illumination and fluorescence spectroscopy powered by AI for Depth-Resolved skin diagnostics at Point-of-Care	Dr Dinish U.S	A*STAR	KK Women's and Children's Hospital
3	Task-driven Surgical Intelligence: From Visual Videos to 3D-aware Planning and AR/VR Training	Dr Si Yong Yeo	NTU	
4	Physics informed AI powered polarization sensitive mobile based cancer diagnosis for telepathology	Asst. Prof Matthew Foreman	NTU	
5	Synergistic Defect–Plasmon–Interface Engineering for Green Hydrogen Generation and Storage	Asst. Prof Prashant Kumar	NTU	
6	Hybrid water electrolyzers for energy-saving hydrogen production assisted by oxidation of biomass derived platforms	Assoc. Prof Boon Siang Yeo	NUS	
7	Integrated Solar Water Electrolyser (ISWE) for Green Hydrogen and Water Production from Seawater with Synergistic Energy Recovery	Prof Ghim Wei Ho	NUS	

8	Towards Equitable Horizons: An India-Singapore Initiative for Culturally-Congruent Vision Language Models in Radiology AI	Asst. Prof Swapnil Mishra	NUS	
9	Flexible Wearable Ultrasound Device System Incorporating Drug-Loaded Biodegradable Micro-Particles for Personalized, Long-Term, and Continuous Therapeutic Management of Diabetic Wounds	Asst. Prof Yiyuan Yang	NUS	