

AME RIE2020 Programmatic Fund

S/N	Title of Project	Principal Investigator	Host Institution	Partner Institutions
1	Quantum Technologies for Engineering	Leonid Krivitskiy	DSI	IHPC, IME, IMRE, NTU, NUS
2	Neuromorphic Computing	Yau Wei Yun	I2R	IHPC, IME, NTU, NUS
3	Hardware-Software Co-optimisation for Deep Learning	Vijay Chandrasekhar	I2R	IHPC, IME, NTU, NUS
4	Accelerated Materials Development for Manufacturing	Kedar Hippalgaonkar	IMRE	IHPC, I2R, NUS, NTU
5	Human-Robot Collaborative AI for Advanced Manufacturing and engineering (AME)	Kenneth Kwok, Cheston Tan	CHEEM	I2R, ARTC, NUS, NTU, SUTD
6	Cyber-Physiochemical Interfaces	Chen Xiaodong	NTU	NUS, SUTD, IHPC, IMRE, IME
7	Automating Macromolecular Manipulation for Manufacturing (AMMM)	Chew Wei Leong	GIS	ICES, NUS, IBN
8	Nanosystems at the Edge	Eldwin Ng Jiaqiang	IME	NTU, NUS
9	Nanoantenna Spatial Light Modulators for Next-Gen Display Technologies (NSLM)	Arseniy Kuznetsov	IMRE	NUS, SUTD, I2R, NTU, IME
10	Structural Metal Alloys Programme (SMAP)	Upadrasta Ramamurty	NTU	IHPC, IMRE, SIMTECH, NUS, ARTC
11	BRain- Efficient Nanomechanical Artificial Intelligence Computing (BRENAIC)	Wang Nan	IME	NUS, NTU, SUTD
12	Additive Manufacturing for Biological Materials (AMBM)	May Win Naing & Norris Ray Dunn	SIMTECH	NTU, IMB, IMRE, SRIS, IMCB, NUS, IBN
13	Spin-Orbit technologies for Intelligence at the Edge (SpOT-LITE)	Anjan Soumyanarayanan	IMRE	NUS, IME, NTU, IHPC, SUTD
14	Accelerating Homomorphic Encryption (AHE)	Khin Mi Mi Aung	I2R	NTU, NUS, SUTD
15	K-EMERGE: Knowledge Extraction, Modelling, and Explainable Reasoning for General Expertise	Boon Kiat Quek	IHPC	NTU,SUTD
16	Ultrasonic Wavefront Computing	Kevin Chai Tshun Chuan	IME	IHPC, NTU, NUS
17	Learning with Less Data	Foo Chuan Sheng	I2R	SUTD, NUS, NTU, SMU
18	Explainable Physics-based AI (ePAI)	Dao My Ha	IHPC	NUS, SUTD
19	Next-Generation Brain-Computer-Brain Platform – A Holistic Solution for the Restoration & Enhancement of Brain Functions (NOURISH)	Guan Cuntai	NTU	TTSH, NUH, I2R, NUS, IHPC,SUTD
20	Multimodal AI Platform for Ophthalmology	Liu Yong - IHPC Tien Yin Wong - SERI	IHPC	SERI, NTU, NUS
21	Structural Power For Portable and Electrified Transportation	Derrick Fam	IMRE	NTU, IHPC, NUS
22	Ferroelectric Aluminum Scandium Nitride (Al _{1-x} Sc _x N) Thin Films and Devices for mm-Wave and Edge Computing	Zhu Yao	IME	IMRE, NUS, IHPC, NTU, SUTD

MTC RIE2025 Programmatic Fund

S/N	Title of Project	Principal Investigator	Host Institution	Partner Institutions
1	Nanoantenna Light-Emitting Devices (NLED)	Dr. Arseniy I. Kuznetsov	IMRE	NUS, NTU, SUTD
2	Developing a Toolbox For Next-Gen circular Plastic Materials	Assoc Prof Li Zibiao	ISCE ²	NUS, NTU, IMRE, IHPC
3	Terahertz Reconfigurable Intelligent Metasurfaces (TRIM) for 6G communications	Dr. Pitchappa Prakash	IME	NUS, NTU, IMRE,
4	LEES+ - Monolithic CMOS + GaN HEMT Integrated Circuits for 5G and Beyond	Prof Eugene A. Fitzgerald	SMART	NTU
5	Advanced models for Additive Manufacturing (AM2)	Dr Guglielmo Vastola	IHPC	NTU, NUS, SUTD, IMRE, SIMTECH, NMC

The information is accurate as at the point of award