

Singapore Institute of Manufacturing Technology (SIMTech)

No.	Department	A*STAR Supervisor's Name	Email	Designation	Project Title	Project Description	Degree Awarded By Upon Graduation
1	Nano Science and Technology	Dr Huang Zhaohong	zhhuang@simtech.a-star.edu.sg	Senior Scientist II	Nano structured materials electro-photo catalysts		NUS/NTU/SUTD
2	Nano Science and Technology	Dr Zeng Xianting	xzeng@SIMTech.a-star.edu.sg	Principal Scientist II / Director	Nano-structured Supertough Tribological Coatings for High Temperature Applications Self Lubricating Nanocomposite Coating for Wear Protection		NUS/NTU/SUTD
3	Nano Science and Technology	Dr Huang Hui	hhuang@SIMTech.a-star.edu.sg	Scientist III	1. Flexible and wearable devices (e.g. transparent electrodes, sensors, soft robot); 2. Sustainable materials and devices; 3. Waste treatment and valorisation		NUS/NTU/SUTD
4	Nano Science and Technology	Dr Dong Xuecheng	xcdong@simtech.a-star.edu.sg	Scientist III	1) Next Generation Ceramic Membrane Material Ultra, nano, and angstrom level ceramic membrane, module, and system 2) Sustainability Process Technology Water and solvent recovery for manufacturing sustainability (i.e. pharma, bio, F&B, etc.) Liquid separation in waste-to-resource process (food, agriculture, plastic, waste water, etc.)		NUS/NTU/SUTD
5	Nano Science and Technology	Dr He Wei	hewei@simtech.a-star.edu.sg	Scientist II	Nanobubble for cleaning		NUS/NTU/SUTD

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6	Nano Science and Technology	Dr Jeremy Yune	jeremy@simtech.a-star.edu.sg	Scientist I	Development of multi-functional antimicrobial Metal-Organic Framework coating for large area processing Development of Durable Icephobic Coating for Aircraft Exterior Applications		NUS/NTU/SUTD
7	Nano Science and Technology	Dr Chng Shuyun	sychng@SIMTech.a-star.edu.sg	Scientist II	Nanomaterials as Controlled Release Carriers in Coatings		NUS/NTU/SUTD
8	Nano Science and Technology	Dr Yan Wenjin	yan_wenjin@SIMTech.a-star.edu.sg	Scientist I	Development of low energy consumption cracking and debonding process for epoxy waste regeneration		NUS/NTU/SUTD
9	Nano Science and Technology	Dr Hu Jiangfeng	hu_jiangfeng@simtech.a-star.edu.sg	Senior Scientist I	Functional PVD coatings for (energy-efficient, thermochromic, anti-stick, anti-corrosion, anti-wear, sensors) application		NUS/NTU/SUTD
10	Nano Science and Technology	Dr Lau Soo Khim	lausk@SIMTech.a-star.edu.sg	Senior Scientist I	A study on the use and influence of nano-additives in development of functional polymer foams.		NUS/NTU/SUTD

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No.	Department	A*STAR Supervisor's Name	Email	Designation	Project Title	Project Description	Degree Awarded By Upon Graduation
11	Intelligent Systems	Dr Chong Chin Soon	cschong@simtech.a-star.edu.sg	Principal Research Engineer I	Multi-objective Planning and Scheduling for High Mix Low Volume Manufacturing.		NUS/NTU/SUTD
12	Intelligent Systems	Dr Lee Eng Wah	ewlee@simtech.a-star.edu.sg	Principal Scientist II	Planning and Scheduling in Remanufacturing Operations		NUS/NTU/SUTD
13	Intelligent Systems	Dr Li Xiang	xli@simtech.a-star.edu.sg	Senior Scientist II	"Machine Learning for Predictive Modelling in Manufacturing Cyber-physical System Advanced Data Mining for Anomaly Pattern Detection in Manufacturing Processes"		NUS/NTU/SUTD
14	Intelligent Systems	Dr Lin Wei	wlin@simtech.a-star.edu.sg	Senior Scientist III	Teaching robot for manipulation using deep learning Soft robot hand for grasping irregular shaped objects		NUS/NTU/SUTD
15	Intelligent Systems	Dr Joel Stephen Short	shortjs@simtech.a-star.edu.sg	Scientist I	Design and modeling of hyper-redundant soft robot		NUS/NTU/SUTD

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16	Intelligent Systems	Dr Tao Pey Yuen	pytao@simtech.a-star.edu.sg	Senior Scientist I	Calibration and control of robotic systems		NUS/NTU/SUTD
17	Intelligent Systems	Dr Zhu Haiyue	zhu_haiyue@SIMTech.a-star.edu.sg	Scientist I	Data efficient deep learning for robotics application Deep reinforcement learning for mobile navigation		NUS/NTU/SUTD
18	Intelligent Systems	Dr Tan Puay Siew	pstan@simtech.a-star.edu.sg	Principal Research Engineer III	Context Aware, Multi-objective Decision Support for Complex Supply Chains. Disruptions / Risks Mitigation in Complex Supply Chains.		NUS/NTU/SUTD
19	Intelligent Systems	Dr Yuan Xue Ming	xmyuan@SIMTech.a-star.edu.sg	Scientist III	1) Consumer Behavior Modeling and Intelligent Demand Forecasting; 2) Data Driven Dynamic Inventory System and Optimization; 3) Manufacturing and Service System Modeling and Optimization; 4) Global Supply Chain Analytics and Optimization	The projects are data driven with the focus on formulating, modeling and optimizing stochastic dynamic inventory systems in manufacturing and services, and supply chain. The objectives are to develop new methods, novel algorithms and innovative solutions which are valuable to industries and businesses.	NUS/NTU/SUTD

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20	Intelligent Systems	Dr Zhang Nengsheng, Allan	nzhang@simtech.a-star.edu.sg	Senior Scientist III	1) Data analysis for supply chain and last mile logistics 2) Intelligent decision support		NUS/NTU/SUTD
21	Intelligent Systems	Dr Zhou Junhong	jzhou@simtech.a-star.edu.sg		Intelligent Diagnosis and Prognosis for Condition Based Maintenance		NUS/NTU/SUTD
22	Intelligent Systems	Dr Liu Tong	tliu@simtech.a-star.edu.sg	Senior Research Engineer III	3D Intelligent Analysis of CT Data		NUS/NTU/SUTD
23	Intelligent Systems	Dr Xu Chi	cxu@simtech.a-star.edu.sg	Scientist III	1. Machine learning and data mining for enterprise and supply chain applications 2. Intelligent decision support/making with data analytics 3. Context-aware information management		NUS/NTU/SUTD
24	Intelligent Systems	Dr Ng Yen Ting	ytng@simtech.a-star.edu.sg	Scientist II	Multi-scale Simulation for Energy and Materials Flow Multi-objective Planning and Optimization for Energy and Resource Efficiency		NUS/NTU/SUTD

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25	Intelligent Systems	Dr Abhishek Gupta	abhishek_gupta@simtech.a-star.edu.sg	Scientist II	1) Knowledge Transfer and Multi-tasking in Data-Driven Optimization 2) Transfer Learning in Expensive Simulation-based Optimization		NUS/NTU/SUTD
26	Intelligent Systems	Dr Li Xiaocong	li_xiaocong@simtech.a-star.edu.sg		Data-driven learning control for high precision systems		NUS/NTU/SUTD
27	Intelligent Systems	Dr Yang dazhi	yangdz@simtech.a-star.edu.sg	Scientist I	Spatio-temporal data analysis		NUS/NTU/SUTD
28	Intelligent Systems	Dr Wen Rong	wenr@simtech.a-star.edu.sg	Scientist II	Spatio-temporal data mining and visualization		NUS/NTU/SUTD
29	Intelligent Systems	Dr Mojtaba Shakeri	Mojtaba_Shakeri@simtech.a-star.edu.sg	Scientist II	Multi-site inventory optimisation		NUS/NTU/SUTD

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30	Intelligent Systems	Dr Luo Ming	mlo@simtech.a-star.edu.sg	Scientist II	Intelligent Diagnosis and Prognosis for Condition Based Maintenance		NUS/NTU/SUTD
31	Intelligent Systems	Dr Hong Jihoon	hongjh@simtech.a-star.edu.sg	Scientist II	Dagnostics and Prescriptive Maintenance in Manufacturing		NUS/NTU/SUTD
32	Intelligent Systems	Dr Yao Xiling	yao_xiling@simtech.a-star.edu.sg	Scientist II	Monitoring, control, and IoT in manufacturing processes Smart CAD/CAM for additive manufacturing Artificial intelligence for quality assurance in welding and additive manufacturing Multidisciplinary design optimization of opto-mechanical systems in additive manufacturing		NUS/NTU/SUTD
33	Intelligent Systems	Dr Toyoda Kentaroh	kentaroh_toyoda@simtech.a-star.edu.sg	Scientist I	Blockchain for supply chains; Cyber-physical system modeling		NUS/NTU/SUTD
34	Material Sciences	Dr Bi Gui Jun	gjbi@simtech.a-star.edu.sg	Senior Scientist III	Laser based additive manufacturing for 3D printing, surface modification and repair Hybrid laser aided additive manufacturing. Development of intelligent manufacturing systems and process Artificial intelligence for additive manufacturing. Development of new materials via additive manufacturing. Development of advanced welding and joining technologies.		NUS/NTU/SUTD

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35	Material Sciences	Dr Chua Beng Wah	bwchua@simtech.a-star.edu.sg	Senior Scientist I	Development of Light alloys (Al, Mg) for high strength and multifunctional properties of composites Solidification based forming process (liquid forging, low pressure casting, rheo casting) for hybrid materials (metal - metal, metal- ceramic, metal - polymer composite) Development of sacrificial core for internal features during solidification forming process Development of incremental rheo casting process for 3D large format parts		NUS/NTU/SUTD
36	Material Sciences	Fong Kai Soon	ksfong@simtech.a-star.edu.sg	Scientist II	Thermomechanical processing of additive manufacturing metallic alloy for high strength and high corrosion resistance Development of extrusion process for metallic composites		NUS/NTU/SUTD
37	Material Sciences	Dr Huang Zhaohong	zh Huang@simtech.a-star.edu.sg	Senior Scientist II	Anode Materials for Electro-oxidation of Organic Pollutants in Wastewater. Materials Recovery from Industrial Wastes by Chemical/ Electrochemical Processes. Metallization of high performance polymers and composites.		NUS/NTU/SUTD
38	Material Sciences	Dr John Yong Ming Shyan	msyong@simtech.a-star.edu.sg	Principal Scientist II	Processing of aluminium, magnesium alloys and it composites		NUS/NTU/SUTD
39	Material Sciences	Dr Li Tao	tli@simtech.a-star.edu.sg	Scientist III	Powder injection molding of metal and ceramic materials.		NUS/NTU/SUTD

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40	Material Sciences	Dr Liu Kui	kliu@simtech.a-star.edu.sg	Senior Scientist I	Ductile Mode Machining of Brittle Materials. Micro/Nano Machining. Ultra-precision/Ultrasonic Machining.		NUS/NTU/SUTD
41	Material Sciences	Dr Nai Mui Ling Sharon	mlnai@simtech.a-star.edu.sg	Senior Scientist II	Simulation and development of powder-based additive manufacturing technologies Ceramic binder jet printing and binder development Development of high performance metallic powders for additive manufacturing (simulation and processing)		NUS/NTU/SUTD
42	Material Sciences	Dr Qi Xiaoying	xyqi@SIMTech.a-star.edu.sg	Scientist III	Structure and material development of multilayer printed electronics for flexible and stretchable intelligent sensor and display		NUS/NTU/SUTD
43	Material Sciences	Dr. Seet Hang Li	seethl@simtech.a-star.edu.sg	Scientist III	Tailoring microstructures for Targeted Performance in Additive Manufacturing Powder Bed Fusion Processes, Process Development for Difficult-to-Print Alloys in Metal Additive Manufacturing Development of new additive manufacturing process technologies		NUS/NTU/SUTD
44	Material Sciences	Dr Sun Chen-Nan	cmsun@simtech.a-star.edu.sg	Scientist III	Data Analytics Approach to Material Properties Assessment and Optimization of Laser Powder Bed Fusion Process Process Development for Difficult-to-Print Alloys in Metal Additive Manufacturing Additive Manufacturing of Functionally Graded Lattice Structures with Unique Characteristics		NUS/NTU/SUTD

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45	Material Sciences	Dr Shan Xuechuan	xcshan@simtech.a-star.edu.sg	Senior Scientist III	Printed sensors on flexible substrate and printed electronics; Sensor development and sensing network Process innovation and Material synthesis for Printed electronics.		NUS/NTU/SUTD
46	Material Sciences	Dr Sudesh Wijesinghe	sudeshw@simtech.a-star.edu.sg	Scientist III	Corrosion characterisation by standard and advanced electrochemical and scanning techniques. Corrosion mechanisms of metal and alloys under tropical and accelerated exposure conditions. Investigation of protection and failure mechanisms of coatings used in different industrial / exposure applications. Corrosion evaluation test methodology development.		NUS/NTU/SUTD
47	Material Sciences	Dr Teo Wern Sze	wsteo@simtech.a-star.edu.sg	Senior Scientist I	Development of bi-laminate co-formed thermoplastic composites via the IR-thermoforming process.		NUS/NTU/SUTD
48	Material Sciences	Dr Tey Ju Nie	jntey@SIMTech.a-star.edu.sg	Scientist III	Development of carbon based electrodes for sensing device application. Carbon based nanocomposites.		NUS/NTU/SUTD
49	Material Sciences	Dr Wang Xincal	xcwang@simtech.a-star.edu.sg	Senior Scientist I	Laser Annealing of Semiconductor Materials. Laser Machining of Hard-to-machine Materials such as WC, Glass, and Ceramic. Laser Surface Micro/Nano Texturing for Functional Surface Fabrication.		NUS/NTU/SUTD

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50	Material Sciences	Dr Wang Zhenfeng	zfwang@simtech.a-star.edu.sg	Senior Scientist II	Microfluidic/lab-on-a-chip devices and systems for biomedical , food and water testing applications. Design and fabrication of Microfluidic devies and components. Microfluidics and Lab-on-a-Chip system design automation Polymer microfabrication process for microfluidic device manufacturing		NUS/NTU/SUTD
51	Material Sciences	Dr Wang Pan	wangp@simtech.a-star.edu.sg		Development of high-performance metallic powder for additive manufacturing. Design and optimization of new structures, including metamaterials, biomedical implants, lightweight design, energy absorption structure and compliant mechanism, for additive manufacturing. Optimization of the additive manufacturing process via machine learning Phase transformation and deformation behavior of metastable alloys fabricated by additive manufacturing. Developing Ultra-tough and Strong High Entropy Alloys with Hierarchical Microstructure in the additive manufacturing process		NUS/NTU/SUTD
52	Material Sciences	Dr Yu Suzhu	szyu@simtech.a-star.edu.sg	Scientist III	Developing functional polymeric materials for additive manufacturing processing.		NUS/NTU/SUTD
53	Material Sciences	Dr. Ko Jeong Hoon	jhko@SIMTech.a-star.edu.sg	Senior Scientist I	Adaptive machining dynamics for robotic profiling and finishing operation. Ultrasonic vibration assisted milling process for machining stability control and surface topography optimization. Nano-metric surface topography simulation and control for ultra-precision machining.		NUS/NTU/SUTD
54	Material Sciences	Dr Tan Yong Teck	tanyongt@simtech.a-star.edu.sg	Scientist II	Corrosion Protection Against Galvanic Corrosion of Dissimilar Materials Hybrid Structures Ion-Selective Sensor Material Development for In-Situ Sensors for Electroplating Processes Contour-Fitting Electropolishing for Internal Geometries of Additive Manufacturing Parts Novel Sealing Treatments for Oxide Films for Enhancement of Corrosion Protection		NUS/NTU/SUTD

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55	Material Sciences	Dr Florencia Edith Wiria	florencia@SIMTech.a-star.edu.sg	Scientist III	3D Printing of Multimaterial Polymer and Polymer-matrix Composites, New Material Investigation for 3D Printing of Polymer and Polymer-based Composites		NUS/NTU/SUTD
56	Material Sciences	Dr Suwat Jirathearant	suwatj@simtech.a-star.edu.sg	Senior Scientist I	Development of die-less forming technology for high-temp sheet metal alloys		NUS/NTU/SUTD
57	Material Sciences	Dr Wang Zhongke	zkwang@simtech.a-star.edu.sg	Scientist III	Laser microprocessing of glasses substrates for electronics Laser microprocessing of silicon substrates for electronics Laser micromachining of LED substrates for lighting devices		NUS/NTU/SUTD
58	Material Sciences	Dr Stefanie Feih	feih@simtech.a-star.edu.sg	Senior Scientist III	1) Hybrid joining of carbon fibre thermoplastic composites and metallic inserts 2) Manufacturing of multi-functional composite structures		NUS/NTU/SUTD
59	Material Sciences	Dr Chng Shuyun	sychng@SIMTech.a-star.edu.sg	Scientist II	Coating Process Development for complex shape substrate		NUS/NTU/SUTD

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60	Material Sciences	Dr Huang Hui	hhuang@SIMTech.a-star.edu.sg	Scientist III	Functional material synthesis, formulation and applications; Energy conversion and storage (e.g. thin film solar cell, supercapacitor and batteries.)		NUS/NTU/SUTD
61	Material Sciences	Dr Dong Xuecheng	xcdong@simtech.a-star.edu.sg	Scientist III	1) Next Generation Ceramic Membrane Material Ultra, nano, and angstrom level ceramic membrane, module, and system 2) Sustainability Process Technology Water and solvent recovery for manufacturing sustainability (i.e. pharma, bio, F&B, etc.) Liquid separation in waste-to-resource process (food, agriculture, plastic, waste water, etc.)		NUS/NTU/SUTD
62	Material Sciences	Dr Yan Wenjin	yan_wenjin@SIMTech.a-star.edu.sg	Scientist I	Development of Porous Thin Film Electrode for Industry Wastewater Treatment Polymer Metalization and Protective Coating System New Generation Zinc Rich Coating for Corrosion Protection of Steel Structure		NUS/NTU/SUTD
63	Material Sciences	Dr Wu Weiye	wu_weiye@simtech.a-star.edu.sg	Scientist I	1) Selective oxidation of aqueous pollutants through Electrochemical Advanced Oxidation Process (EAOP) 2) Conversion of solid wastes (e.g., carbon-based waste) into useful materials for waste water treatment and deionization		NUS/NTU/SUTD
64	Material Sciences	Dr He Wei	hewei@simtech.a-star.edu.sg	Scientist II	Micro-fabrication for 3D structured metal material Development of micro-sensor for ions and additives analysis in electroplating process		NUS/NTU/SUTD

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65	Material Sciences	Dr Sha Zhou	sha_zhou@simtech.a-star.edu.sg	Scientist I	HIPIMS process for (1) deposition of multi-stimuli responsive phase transition of vanadium dioxide (VO ₂) for smart window applications; and alternatively (2) ultra-smooth DLC coating for precision engineering applications		NUS/NTU/SUTD
66	Material Sciences	Dr Ma Yansheng	ma_yansheng@simtech.a-star.edu.sg	Senior Scientist II	Functional solar-thermal interactive coating, thin film and sensors		NUS/NTU/SUTD
67	Material Sciences	Dr Lau Soo Khim	lausk@SIMTech.a-star.edu.sg	Senior Scientist I	Development of thermoplastic starch based biodegradable films/foams for green packaging.		NUS/NTU/SUTD
68	Material Sciences	Tran Le Quan Ngoc	tranlqn@SIMTech.a-star.edu.sg	Scientist II	Hybrid composite manufacturing process design and development with metallic inserts or sandwich cores.		NUS/NTU/SUTD
69	Environmental Life Cycle Assessment	Dr Jonathan Low Sze Choong	sclow@simtech.a-star.edu.sg	Senior Scientist I	Sustainability and Life Cycle Analytics Platform Collaboration Platform for Circular Economy and Industrial Symbiosis Smart Resource Management Systems for Sustainability		NUS/NTU/SUTD

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70	Environmental Life Cycle Assessment	Dr Song Bin	bsong@simtech.a-star.edu.sg	Senior Scientist III	Cyber-physical System with Embedded Machine Learning for Energy-aware production Energy efficient indoor climate management in tropics		NUS/NTU/SUTD
71	Bio-Manufacturing Technologies and Platforms	Dr May Win Naing	winnaingm@simtech.a-star.edu.sg	Senior Scientist II	Proof-of-Concept Bio-Manufacturing of Recombinant Human Collagen		NUS/NTU/SUTD
72	Optics	Dr Derrick Yong	derrick-yong@SIMTech.a-star.edu.sg	Scientist II	Label-free Optical Spectroscopy Instrumentation and Chemometrics for In-vessel Monitoring in Cell Therapy Manufacturing AI-aided Fast and Adaptive Hyperspectral Imager for Food Safety and Inspection AI-aided Hyperspectral Imager for Food Safety and Inspection		NUS/NTU/SUTD
73	Microfluidics and Lab on Chip Technology	Dr Wang Zhiping	zpwang@simtech.a-star.edu.sg	Principal Scientist I/Director	Microfluidics for Diagnostic Applications Organ on Chip Microfluidics design and manufacturing technologies		NUS/NTU/SUTD
74	Microfluidics and Lab on Chip Technology	Dr Wu Ruijie	rgwu@simtech.a-star.edu.sg	Senior Scientist I	1-step sample preparation module for low cost molecular diagnostics Molecular diagnostics Lab-on-chip technology		NUS/NTU/SUTD

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75	Microfluidics and Lab on Chip Technology	Dr Charles Wang Wei	wwang@simtech.a-star.edu.sg	Senior Scientist I		Droplet microfluidics for bio-medical applications (e.g. Digital PCR for nucleic detection); Microfluidic based IEF separation of protein (e.g. Hemoglobin) for disease screening (e.g. thalassemia); Microfluidics and Lab-on-a-Chip system development (e.g. Rapid, sensitive, and highly specific PCR-based detection of pathogen on microfluidic chip);	NUS/NTU/SUTD
76	Microfluidics and Lab on Chip Technology	Dr. Leon Chan Cong Zhi	czchan@simtech.a-star.edu.sg	Scientist II		(i) miniaturization of biosensors for microfluidic applications (ii) development of holographic sensors for multi-analyte sensing (iii) reversible equilibrative chemical ligands for non-consumptive biosensing applications	NUS/NTU/SUTD
77	Micro-Electro-Mechanical Systems Technology, Sensors and Detectors	Dr Teo Chek Sing	csteo@simtech.a-star.edu.sg	Senior Scientist I		Precision Motion Control for High Throughput Machines	NUS/NTU/SUTD
78	Micro-Electro-Mechanical Systems Technology, Sensors and Detectors	Dr Huang Hui	huang@SIMTech.a-star.edu.sg	Scientist III		Materials and device fabrication for sensors	NUS/NTU/SUTD
79	Photonics	Dr Li Hao	hli@simtech.a-star.edu.sg	Senior Scientist I		Tabletop Coherent EUV/soft X-ray Sources	NUS/NTU/SUTD

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80	Optics Semiconductor	Dr Seck Hon Luen	hlseck@simtech.a-star.edu.sg	Scientist III	High resolution imaging and spectroscopy.		NUS/NTU/SUTD
81	Attosecond Physics & Photonics	Dr Zhang Ying	yzhang@simtech.a-star.edu.sg	Principal Scientist II	Ultrafast lasers and optics		NUS/NTU/SUTD
82	Electronics & Photonics	Dr Ng Boon Ping	bpng@simtech.a-star.edu.sg	Senior Scientist I	Free-form Optics Design and Fabrication		NUS/NTU/SUTD
83	Electronics & Photonics	Dr Wang Zhongke	zkwang@simtech.a-star.edu.sg	Scientist III	Laser sigulation of electronic chips		NUS/NTU/SUTD
84	Electronics & Photonics	Dr Huang Hui	hhuang@simtech.a-star.edu.sg	Scientist III	Electroluminescent materials and devices; Flexible, wearable and printable electronics and devices		NUS/NTU/SUTD

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85	Computational Fluid Dynamics or Computational Mechanics	Dr Stefanie Feih	feih@simtech.a-star.edu.sg	Senior Scientist III	Process optimization for powder-bed based additive manufacture		NUS/NTU/SUTD
86	Computational Fluid Dynamics or Computational Mechanics	Dr Chew Youxiang	chewxiang@simtech.a-star.edu.sg	Scientist III	Simulation and development of joining of metal to polymeric materials Coupled thermal-fluid dynamics and residual stress simulation in welding and additive manufacturing Microstructure simulation for welding and additive manufacturing Prediction of material properties of additively manufactured parts		NUS/NTU/SUTD
87	Computational Fluid Dynamics or Computational Mechanics	Dr Stephen Daynes	daynes@simtech.a-star.edu.sg	Scientist III	Design optimisation for additively manufactured lattice structures		NUS/NTU/SUTD
88	Computational Material Sciences	Dr Yan Wenjin	yan_wenjin@SIMTech.a-star.edu.sg	Scientist I	Material Simulation for Durable Electrode in Industry Wastewater Treatment		NUS/NTU/SUTD
89	3D Computed Tomography	Dr Liu Tong	tliu@simtech.a-star.edu.sg	Senior Research Engineer III	Scattering-free Industrial Helical Computed tomography		NUS/NTU/SUTD

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90	Sustainable Manufacturing	Dr Lau Soo Khim	lausk@SIMTech.a-star.edu.sg	Senior Scientist I	PET recycling through reactive extrusion process.		NUS/NTU/SUTD
91	Sustainable Manufacturing	Dr Teo Wern Sze	wsteo@simtech.a-star.edu.sg	Senior Scientist I	Development of environmental composite solutions for structural and damping applications. Process and material design of forged carbon composites using offcut from IR-thermoforming processing.		NUS/NTU/SUTD
92	Sustainability & Life Cycle Engineering	Dr Jonathan Low Sze Choong	sclow@simtech.a-star.edu.sg	Senior Scientist I	1. Computational Methods for Life Cycle Assessment & Life Cycle Costing; 2. Visual Analytics for Life Cycle Assessment & Life Cycle Costing; 3. Data Science Approaches for Robust Planning of Decarbonisation and Circular Economy Pathways;	decision support and planning for decarbonisation and circular economy	NUS/NTU/SUTD
93	Sustainability & Life Cycle Engineering	Dr Nguyen Minh Sang	nguyen_minh_sang@simtech.a-star.edu.sg	Scientist I	Machine Learning and AI Approaches for Smart Sustainability Management	digitalisation for decarbonisation and circular economy	NUS/NTU/SUTD
94	Sustainability & Life Cycle Engineering	Dr Song Bin	bsong@simtech.a-star.edu.sg	Senior Scientist III	Indoor Climate Management for Sustainable Urban Farming	resource-efficient and sustainable urban farming	NUS/NTU/SUTD

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95	Sustainability & Life Cycle Engineering	Dr Yeo Zhiquan	zqyeo@simtech.a-star.edu.sg	Scientist I	1. Modelling and Simulation of Waste-to-Resource Pathways and Exchanges in Industrial Symbiosis and Circular Economy; 2. Knowledge Extraction and Modelling for Supporting Waste-to-Resource Matching and Enabling Industrial Symbiosis;	decision support and planning for decarbonisation and circular economy	NUS/NTU/SUTD
96	Sustainability & Life Cycle Engineering	Dr Dong Xuecheng	xcdong@simtech.a-star.edu.sg	Scientist III	1. Ceramic Membrane for Circular Production and Circular Economy; 2. Sustainable Manufacturing Technologies for Pharma, Biochemical, F&B, etc; 3. Urban Solutions for Waste-to-Resource Valorisation - food and agriculture waste, plastic waste, wastewater, etc;	waste-to-resource processing for circular economy	NUS/NTU/SUTD
97	Sustainability & Life Cycle Engineering	Dr Wu Weiyi	wu_weiyi@simtech.a-star.edu.sg	Scientist I	1. Advance Electrodes for Sustainable Wastewater Treatment; 2. Valorisation of Wastes for Deionization Applications;	waste-to-resource processing for circular economy	NUS/NTU/SUTD
98	Sustainability & Life Cycle Engineering	Dr Yan Wenjin	yan_wenjin@SIMTech.a-star.edu.sg	Scientist I	1. Development of low energy consumption cracking and debonding process for epoxy waste regeneration ; 2. AI-assist control system for sustainable and seamless waste treatment operation; e.g. coagulation for water treatment, disinfection of water; 3. Development of low chemical & energy consumption recovery process for integrated reuse of metal-rich waste and spent acid/alkali; Development of sustainable corrosion protection solution by glass-waste derived blasting and novel zinc-rich coating	waste-to-resource processing for circular economy	NUS/NTU/SUTD
99	Sustainability & Life Cycle Engineering	Dr Huang Hui	hhuang@simtech.a-star.edu.sg	Scientist III	1. Flexible and wearable devices (e.g. transparent electrodes, sensors, soft robot); 2. Sustainable materials and products for industrial ecology; 3. Close-loop waste-to-resource processing for circular economy;	human potential; waste-to-resource processing for circular economy	NUS/NTU/SUTD