	GOLD AWARDS				
S/N	Project ID	Project Title			
1	AS004	Ecological footprint of industrial vs smallholder oil palm plantations			
2	BE015	Development of an automated virtual reality eye testing system for clinical applications			
3	BE021	Evaluating the compatibility of modified ribonucleotides with automated RNA biosensor generation			
4	BE023	Analysing Gait Patterns of Parkinson's Disease patients to predict Freezing of Gait (FoG) using Machine Learning Algorithms			
5	BH003	EEG Hyperscanning for Objective Assessment of Group Collaboration and Creativity			
6	ES005	The bird in the swarm: how to detect and resolve closely-spaced targets in radar			
7	ES015	Wifimu: Navigating Indoor Small-Scaled Worlds and Exploring the Intersection of RSSI and IMU for Indoor Localisation			
8	ET010	Applications of a Modified 3D Printer in Automating Laboratory Procedures			
9	EY010	Solid State Materials for Energy Harvesting and Cooling: from Materials Synthes Characterization, and Analysis to Applications			
10	MA021	Chromatic Number of Graph Powers			
11	MI016	Characterisation of novel phage cocktails against multi-drug resistant Mycobacterium abscessus			
12	MS012	Computational Discovery of Highly Sustainable and Efficient Metal Organic Frameworks for SO2 Capture			
13	MS022	Laser Tuned Micro-fluorescence in Fish Scales for Steganography and Chemical Sensing			
14	PH005	Dynamics and Steady Precession of Ring on a Vertical Smooth Rod			
15	PH006	Micro-viscosity of Gels studied with Magneto-Impedance Spectroscopy			
16	PH015	Reflectarray design based on rectangular phoenix cell			
17	PH021	Marangoni Bursting of Volatile Binary Mixture on Viscous Liquid			
18	PS021	Varying Voltages Of Electro-Culture On The Growth And Germination Of Amaranthus Dubius And Its Applications In Singapore's Market			
19	RO031	Sign2Speak! Synthesising Emotional Speech from Singapore Sign Language through Deep Learning			
20	SS021	Real-Time Privacy Preserving Human Activity Recognition Mobile Application based on Pose Classification			

SILVER AWARDS						
S/N	Project ID	Project Title				
1	BE012	Evaluation of novel ex vivo protein engineering method for therapeutic purposes: Modulation of cellular surfaces with anti-CD30 receptor				
2	BE018	Shielding-Free Signal Noise Suppression in Portable Low-Field MRI				
3	BE022	Low Dose, High Accuracy: Using Deep Learning to Enhance 3D Tomography				
4	BH008	Cognitive Workload Assessment Using Scalp Brain Signals (EEG)				
5	BH017	Neurocognitive Functioning and School Performance in Students With Special Education Needs				
6	BI001	Enhancing in-house Biocellulose Production and Application				
7	BM004	Molecular Dissection of Inflammatory Signals in Acute Lung Injury				
8	BM012	Elucidating the function of MAMDC2 in Head and Neck Squamous Cell Carcinoma				
9	BM035	Innovative Anti-Cancer Vaccine Design: A Novel Prioritisation Framework For Neoantigen Shortlisting				
10	CB004	Characterising the Role of VHZ Phosphatase in Cancer Development				
11	CB006	Study of Single Polymer Dynamics in an Elongational Flow and its Potential Implications on Viral DNA Ejection in T4 Bacteriophage				
12	CB016	Characterization of Klebsiella Pneumonia phages for Phage Therapy				
13	CH021	Universal Approach for Protein Crystallisation				
14	CO013	Evaluation of protein–RNA docking methods				
15	EE002	Application of water hyacinth as a low-cost biosorbent for dyes in textile wastewater				
16	EE026	Pharmaceutical wastewater treatment by continuous adsorption and electrochemical regeneration of a three dimensional activated carbon electrode				
17	EE037	Rapid Detection of Faecal Indicator Bacteria Using Smartphone-Based Platform				
18	ET004	A Novel Design of Self-adaptive Morphing Wing System				
19	ET019	Use of solid mechanics simulation to evaluate and model the stress distribution within an elastomer for making force sensors and soft robots.				
20	MA002	The Steiner Tree Problem				
21	MA011	Mountains and Valleys				
22	MA028	An optimized prediction model of RON loss in gasoline refining process				

	SILVER AWARDS				
S/N	Project ID	Project Title			
23	M1009	Nonlesional skin microbiome differs between children with atopic dermatitis (AD) and those with history of AD			
24	MS009	Investigation of antibacterial and wound healing propertines of chitosan xerogel extracted from Hermetia Illucens, Black Soldier Fly Larvae(BSFL) for application as a wound healing inductor			
25	MS026	Tunable Laser-patterned Dynamic Ag☆O Nano-twinklers: A Comparative Study of Nano-fireworks on ZnO Nanowires and Graphene Oxide Film			
26	MS039	Phase Change Material based Thin Film Coating for Tunable Optical Devices			
27	PH023	On the Coupled Vibroacoustic Modelling of Tensioned Elastic Membranes in a Pressurised Air Cavity			
28	PH027	Inclined Sedimentation of Suspensions: Theoretical and Experimental Investigation into the Boycott Effect			
29	PS028	Analysis of Chemical Composition of Artemisia for medicinal and culinary purposes			
30	RO008	Intelligent System To Prevent Contamination Of Recyclable			
31	RO030	Explainable Video Analytics - A wide area multi-camera tracking perspective.			
32	RO037	A Deep Learning Model for Epicardial Adipose Tissue (EAT) Volume Quantification			
33	SS024	Interpreting and Evading Visualization-Based Deep Learning Malware Classifiers			

BRONZE AWARDS				
S/N	Project ID	Project Title		
1	AS010	Anti-Inflammatory Effects of Mushroom Extracts on Gut Health in the Zebrafish Model		
2	BE001	Ex vivo and real time mapping of gastric cancer using an image-guided Raman spectroscopy probe system		
3	BE017	Nanoparticles Are At-track-tive: A Novel Approach to Labelling Cells of Interest with Magnetic Nanoparticles for High Clarity Tracking and Imaging		
4	BE019	Protein-based Biodegradable Drug Carrier for Controlled Release of Hydrophobic Compounds		
5	BE027	Formulation of Antimicrobial Protein-based Hydrogel for Wound Healing		
6	BE029	An Intelligent System For Surgical Tools Checking, using Vision and Deep Learning		
7	BI004	The Synthesis and Use of Animal Hair (AH) and Activated Carbon (AC) as Effective and Reusable Biosorbents for Oil Spills		
8	BM021	Tuning T-lymphocytes to improve wound healing		
9	BM033	Development of Small Molecules to Improve Anti-Tumour Immunity in Colorectal Cancer		
10	CB019	How the Spike Protein of SARS-CoV-2 Reprograms Cellular Metabolism and the DNA Damage Response		
11	CH007	Deep Molecular Dreaming of Next-Generation COVID-19 Drugs		
12	CH010	Investigating the Binding of Rhenium Complexes to Heptapeptides		
13	CH035	Enantioselective Synthesis of Biaryl Atropisomers using Distal Ionic Interactions		
14	CH036	Spatial-Aware Deep Learning for Reaction Property Prediction		
15	CO003	Investigation of Different Fragmentation Methods for Fragment Database Preparation		
16	CO015	functional structural modelling of a bok choy plant		
17	EA004	Analysis of water using precision ellipsometry		
18	EE004	Biochar Derived from Chopsticks as an Effective Biosorbent for Pollutant Removal from Wastewater		
19	EE006	Image-based vehicle traffic modelling for greenhouse gas emissions		
20	EE031	Screening of Food Waste as Alternative Growth Media for Brazzein Protein Expression in Lactococcus Lactis		
21	ES007	Wideband Monopole Antenna and Methods to Enhance its Performance		
22	ES011	Machine Learning Enabled Edge Intelligence for Monitoring Singapore's Aedes Mosquito Population		

	BRONZE AWARDS				
S/N	Project ID	Project Title			
23	ET013	Designing And Building A Semi-Autonomous Trolley For Use In School Science Laboratories			
24	ET022	Design And Analysis Of An Autonomous Electric Wing In Ground-Effect Drone For Ship Chandling			
25	MA019	Dungeons and Dragons Inspired Cantrip Knockout Prediction: Error-minimising numerical investigative system			
26	MI001	Optimising in vitro production of late stage Plasmodium falciparum gametocytes for Anopheles sinesis infection			
27	MI005	Using Next Generation Sequencing to evaluate the genetic mutation responsible for increased antimicrobial resistance in E.Coli			
28	MS020	Power Supply System for Smart Contact Lens			
29	MS023	To Investigate the Stretching Dynamics of Knotted DNA Molecules Under an Elongational Field			
30	MS034	Silver based coordination complexes enabling fiber for e-textiles			
31	PS022	Understanding the Genetic Basis of Resistance to Combined Heat and Drought stress in Arabidopsis thaliana accessions			
32	PS039	Novel Growth Method of Microalgae to Increase Protein Content Under Mixotrophic Conditions			
33	RO028	Deep Equilibrium BERT			
34	RO042 Experiment on Offline Handwritten Mathematical Expressions Recognition Usin Deep Learning Models				

MERIT AWARDS							
S/N	Project ID	Project Title					
1	AS001	Investigating the effect of food processing on the digestibility of protein in the different types of tofu					
2	AS003	Analysis of forebrain cellular activity in experimental neuropathic pain					
3	AS006	Investigating the effect of fermented food on the nutrient content of Black Soldier Fly Larvae					
4	BE008	Plasmonic Nanostructures Based Surface Enhanced Optical Sensors					
5	BE014	Investigating the encapsulation of N-acetylcysteine in PLGA nanoparticles and its effectiveness as an antibacterial agent					
6	BH021	Young people's preferences in movies: Evaluating the effectiveness of movie ratings					
7	BI002	DNA-binding properties of ruthenium arene oxalato complexes with monocarbonyl analogues of curcumin					
8	BI006	Delaying the degradation of Eruca vesicaria and tofu using Mangifera indica seeds					
9	BM007	Informatic Molecular Study and Evaluation Method Development of Herbal Tea					
10	CB018	Optimization of logic gates for one-step detection of microRNAs via Split loop- mediated isothermal amplification (Split-LAMP)					
11	CB022	Developing an Optogenetic O-GlcNAc Transferase for Single Protein O- GlcNAcylation in Cells					
12	CH004	Converting CI- to Bactericidal HOCI by Zn/Cu Core/Shell Particles and their applications					
13	CH018	Obtaining chitin-melanin complexes from Hermetia Illucens and investigating its photoprotective and antimicrobial applications for use in sunscreens					
14	CH041	Competing mechanisms in the assembly of tannic acid-gelatin multilayers					
15	CO008	A phylogenetic analysis of the 2012-15 dengue outbreak in Sri Lanka					
16	CO011	Detailed analysis of swimming behaviour in larval zebrafish treated with Selective Serotonin Reuptake Inhibitors in the light/dark choice anxiety assay					
17	EA007	Potential Factors influencing Local Butterfly Biodiversity in Park Connectors					
18	EE013	Feasibility of Construction of a PM2.5 Air Filter using Sugarcane Bagasse					
19	EE014	Comparing biosorption effectiveness of Copper and Zinc ions using Ganoderma lucidum, Volvariella volvacea and Pleurotus ostreatus					
20	EE020	Performance Evaluation of Recycled Acyl-Modified Chitosan Filtration Membranes on Polluted Water Using Spectroscopic Techniques					
21	EE033	Plastic-eating worms: what can we learn from the worms to deal with plastic waste?					
22	EY005	Sustainable Hydrogen Generation by Degradation of Biomass					

	MERIT AWARDS				
S/N	Project ID	Project Title			
23	EY014	Investigating the Effect of Biochar on the Performance of a Microbial Fuel Cell			
24	MA001	On the Application of Inequalities Containing Sums of Minimum/Maximum of Numbers			
25	MA004	A.I. Training and Data Labelling with Data from the Real Environment			
26	MA018	On the Modification of Recursive Sequences of the form an = an=1 + an-j			
27	MA022	The study of the views of Singapore youths on the possibility of HPV vaccine made available to young male Singaporeans			
28	MA034	Utilising the SEIR Model to Simulate the Implementation of a Lockdown During the COVID-19 Pandemic			
29	MS035	ImpEMItrable: Testing Materials and Gasket Shielding Abilities in Building a Faraday's Box			
30	MS043	Sound Reduction Capabilities of Biocomposites Synthesised from Food Wastes			
31	PS041	Phytoremediation properties of common fresh water plants			
32	RO029	Building of Natural Language Processing Application to aid in Politeness Transfe			
33	RO045	Investigation of Gear and Push-Pull Tilting Mechanisms of Drones for Tree Inspection			
34	RO046	School Surveillance System with an Autonomous Land Vehicle			
35	SS008	Real-World Implementation and Security Analysis of Structured Encryption on Amazon Web Services			
36	SS013	Alternative Inertial Tracking Protocol for Whiteboard AirPen			
37	SS028	Detecting Malware Samples using a Novel Feature Vector and Deep Learning Methods			
38	TM008	Mounting a combat against the terminator, Glioblastoma: Using combinatorial chemotherapeutics			
39	TM010	Investigating the synergistic effects of combining Wnt pathway inhibitors GB1874 or AB4 together with an innate natural killer immune cell line, NK-92MI on two different commercial colorectal cancer cell lines, SW480 and HCT116			

SSEF SPECIAL AWARDS			
Special Award	Project ID	Project Title	
Electrochemical Society,	EY006	Extracting Biofuel from Corn Cobs	
Singapore Chapter (ECS)	EY007	Optically and Wirelessly Re-chargeable Buffer Batteries	
Special Award	EY014	Investigating the Effect of Biochar on the Performance of a Microbial Fuel Cell	
Institution of Chemical	EY002	Comparison of Energy Output of Active and Passive Solar Trackers	
Engineers (IChemE) Singapore Award	EY010	Solid State Materials for Energy Harvesting and Cooling: from Materials Synthesis, Characterization, and Analysis to Applications	
	ET010	Applications of a Modified 3D Printer in Automating Laboratory Procedures	
James Dyson Foundation (JDF) Design Engineering	ET022	Design And Analysis Of An Autonomous Electric Wing In Ground- Effect Drone For Ship Chandling	
Award	EY002	Comparison of Energy Output of Active and Passive Solar Trackers	
	EY010	Solid State Materials for Energy Harvesting and Cooling: from Materials Synthesis, Characterization, and Analysis to Applications	
L'Oréal Special Award for Innovation in Sustainability	BE027	Formulation of Antimicrobial Protein-based Hydrogel for Wound Healing	
L'Oréal Special Award for Innovation in	MI008	Metagenomic and metatranscriptomic profiling of human gut Bifidobacteria in relation to infantile atopic eczema	
Dermatology and Cosmetology	M1009	Nonlesional skin microbiome differs between children with atopic dermatitis (AD) and those with history of AD	
The Institution of Engineers, Singapore	EE019	HYBRID ECOBIKE	
(IES) Special Award	EY007	Optically and Wirelessly Re-chargeable Buffer Batteries	

SSEF SPECIAL AWARDS			
Special Award	Project ID	Project Title	
	AS010	Anti-Inflammatory Effects of Mushroom Extracts on Gut Health in the Zebrafish Model	
	BE022	Low Dose, High Accuracy: Using Deep Learning to Enhance 3D Tomography	
	BH003	EEG Hyperscanning for Objective Assessment of Group Collaboration and Creativity	
	BI006	Delaying the Degradation of Eruca vesicaria and tofu using Mangifera indica seeds	
	BM021	Tuning T-lymphocytes to improve wound healing	
	CB022	Developing an Optogenetic O-GlcNAc Transferase for Single Protein O-GlcNAcylation in Cells	
	CH025	Developing a Novel Detection Method for Butyrates, a Medicinal Food to Improve Gut Health	
	EA007	Potential Factors influencing Local Butterfly Biodiversity in Park Connectors	
Singapore Association for the Advancement of	EE023	Food Waste to Green Fabric	
Science (SAAS) Special Award – Poster Award for Science	ET013	Designing And Building A Semi-Autonomous Trolley For Use In School Science Laboratories	
Communication	MS022	Laser Tuned Micro-fluorescence in Fish Scales for Steganography and Chemical Sensing	
	PH021	Marangoni Bursting of Volatile Binary Mixture on Viscous Liquid	
	PS021	Varying Voltages Of Electro-Culture On The Growth And Germination Of Amaranthus Dubius And Its Applications In Singapore's Market	
	RO031	Sign2Speak! Synthesising Emotional Speech from Singapore Sign Language through Deep Learning	
	SS014	Designing a User Interface of a Speech Therapy Application for Aphasia Patients	

		SSEF SPECIAL AWARDS
Organisation	Project ID	Project Title
	MA001	On the Application of Inequalities Containing Sums of
Singapore Mathematics		Minimum/Maximum of Numbers
Society Award for Ingenuity	MA002	The Steiner Tree Problem
	MA033	SSP: An Alternative Perspective to NTRU
Singapore Society for Microbiology and Biotechnology (SSMB) Special Award	MI005	Using Next Generation Sequencing to evaluate the genetic mutation responsible for increased antimicrobial resistance in E.Coli
SUTD R&I Award:	RO014	Designing an Autonomous Platform using Hobbyist Robotics Embedded Computing for Performing Geospatial 3D Mapping
Artificial Intelligence	RO037	A Deep Learning Model for Epicardial Adipose Tissue (EAT) Volume Quantification
SUTD R&I Award:	ET004	A Novel Design of Self-adaptive Morphing Wing System
Aviation	ET022	Design And Analysis Of An Autonomous Electric Wing In Ground- Effect Drone For Ship Chandling
	EE031	Screening of Food Waste as Alternative Growth Media for
		Brazzein Protein Expression in Lactococcus Lactis
SUTD R&I Award: Cities	EE033	Plastic-eating worms: what can we learn from the worms to deal with plastic waste?
SUTD R&I Award:	BE015	Development of an automated virtual reality eye testing system for clinical applications
Healthcare	BE023	Analysing Gait Patterns of Parkinson's Disease patients to predict Freezing of Gait (FoG) using Machine Learning Algorithms
SUTD R&I Award: Multi-	ET010	Applications of a Modified 3D Printer in Automating Laboratory Procedures
Disciplinary	RO046	School Surveillance System with an Autonomous Land Vehicle
	EA004	Analysis of water using precision ellipsometry
SUTD R&I Award: Sustainability	EE013	Feasibility of Construction of a PM2.5 Air Filter using Sugarcane Bagasse

SSEF SPECIAL AWARDS			
Organisation	Project ID	Project Title	
	AS005	An investigation of the effectiveness of administering aspartame mixture to Hermetia illucens to create a viable model for Obsessive Compulsive Disorder	
	AS006	Investigating the effect of fermented food on the nutrient content of Black Soldier Fly Larvae	
Yale-NUS College Special Award	MA007	Project Wordle	
Awaru	MS006	Development of aerogel fat blockers from sugarcane bagasse and corn leaves	
	PH005	Dynamics and Steady Precession of Ring on a Vertical Smooth Rod	
	PS011	Effects of water availability for plants growing in zero gravity	