

Project Code:

SINGAPORE SCIENCE & ENGINEERING FAIR 2020

ENTRY FORM

Please refer to the SSEF 2020 website (<http://www.science.edu.sg/ssef>) for details on the application process and all the submission requirements. **All documents must be received by Thursday, 9 January 2020, 5pm.**

PROJECT INFORMATION

Type of Participation:	Project Category*:	Project Sub-Category*:
Title of Research Project:		

* Please refer to Annex A for the list of categories and sub-categories. Selecting the appropriate category and sub-category is important to ensure that the assigned judges are familiar with your research topic.

DECLARATION BY PARTICIPANT(S)[§]

I / We hereby certify that all the information provided to SSEF organisers is correct. I / We did not plagiarise material, forge or fabricate data, use or present other researcher's work as our own in my / our research project. I / We consent to the use of the information / project I / we submit to the organisers for publicity purpose. I / We understand that all the materials I / we submit will not be returned to me / us.

Individual / Team Leader (i.e. team member 1)

Full name:	School Level (eg. Sec 3, IP4)
Signature:	School: Date:

For Team Projects:

Team Member 2

Full name:	School Level (eg. Sec 3, IP4)
Signature:	School: Date:

Team Member 3

Full name:	School Level (eg. Sec 3, IP4)
Signature:	School: Date:

[§] Note that participant(s) of SSEF may be contacted through e-mail for future STEM-related activities or surveys

SCHOOL'S ENDORSEMENTFor individual project / team projects with members from the same school

Teacher-in-charge's full name:	Teacher-in-charge's email address:
Teacher-in-charge's signature:	Date:

SCHOOL'S ENDORSEMENTFor team projects with members from different schools

For team member 1	
Teacher-in-charge's full name:	Teacher-in-charge's email address:
Teacher-in-charge's signature:	Date:
For team member 2	
Teacher-in-charge's full name:	Teacher-in-charge's email address:
Teacher-in-charge's signature:	Date:
For team member 3	
Teacher-in-charge's full name:	Teacher-in-charge's email address:
Teacher-in-charge's signature:	Date:

ANNEX A – SSEF 2020 CATEGORIES (STATED IN BOLD AND CAPITALISED) AND THE CORRESPONDING SUB-CATEGORIES

Please visit the website at <https://student.societyforscience.org/intel-isef-categories-and-subcategories> for a full description and definition of the categories and sub-categories.

ANIMAL SCIENCES (AS)

- Animal Behavior
- Cellular Studies
- Development
- Ecology
- Genetics
- Nutrition and Growth
- Physiology
- Systematics and Evolution

BIOCHEMISTRY (BI)

- Analytical Biochemistry
- General Biochemistry
- Medicinal Biochemistry
- Structural Biochemistry

BIOMEDICAL AND HEALTH SCIENCES (BM)

- Cell, Organ, and Systems Physiology
- Genetics and Molecular Biology of Disease
- Immunology
- Nutrition and Natural Products
- Pathophysiology

BIOMEDICAL ENGINEERING (BE)

- Biomaterials and Regenerative Medicine
- Biomechanics
- Biomedical Devices
- Biomedical Imaging
- Cell and Tissue Engineering
- Synthetic Biology

CELLULAR AND MOLECULAR BIOLOGY (CB)

- Cell Physiology
- Cellular Immunology
- Genetics
- Molecular Biology
- Neurobiology

CHEMISTRY (CH)

- Analytical Chemistry
- Computational Chemistry
- Environmental Chemistry
- Inorganic Chemistry
- Materials Chemistry
- Organic Chemistry
- Physical Chemistry

COMPUTATIONAL

BIOLOGY AND BIOINFORMATICS (CO)

- Computational Biomodeling
- Computational Epidemiology
- Computational Evolutionary Biology
- Computational Neuroscience
- Computational Pharmacology
- Genomics

EARTH AND ENVIRONMENTAL SCIENCES (EA)

- Atmospheric Science
- Climate Science
- Environmental Effects on Ecosystems
- Geosciences
- Water Science

EMBEDDED SYSTEMS (ES)

- Circuits
- Internet of Things
- Microcontrollers
- Networking and Data Communications
- Optics
- Sensors
- Signal Processing

ENERGY: CHEMICAL (EC)

- Alternative Fuels
- Computational Energy Science
- Fossil Fuel Energy
- Fuel Cells and Battery Development
- Microbial Fuel Cells
- Solar Materials

ENERGY: PHYSICAL (EP)

- Hydro Power
- Nuclear Power
- Solar
- Sustainable Design
- Thermal Power
- Wind

ENGINEERING MECHANICS (EM)

- Aerospace and Aeronautical Engineering
- Civil Engineering
- Computational Mechanics
- Control Theory
- Ground Vehicle Systems
- Industrial Engineering- Processing
- Mechanical Engineering
- Naval Systems

ENVIRONMENTAL ENGINEERING (EE)

- Bioremediation
- Land Reclamation
- Pollution Control
- Recycling and Waste Management
- Water Resources Management

MATERIALS SCIENCE (MS)

- Biomaterials
- Ceramic and Glasses
- Composite Materials
- Computation and Theory
- Electronic, Optical and Magnetic Materials
- Nanomaterials
- Polymers

MATHEMATICS (MA)

- Algebra
- Analysis
- Combinatorics, Graph Theory, and Game Theory
- Geometry and Topology
- Number Theory
- Probability and Statistics

MICROBIOLOGY (MI)

- Antimicrobials and Antibiotics
- Applied Microbiology
- Bacteriology
- Environmental Microbiology
- Microbial Genetics
- Virology

PHYSICS AND ASTRONOMY (PH)

- Astronomy and Cosmology
- Atomic, Molecular, and Optical Physics
- Biological Physics
- Condensed Matter and Materials
- Nuclear and Particle Physics
- Theoretical, Computational and Quantum Physics

PLANT SCIENCES (PS)

- Agriculture and Agronomy
- Ecology
- Genetics/Breeding
- Growth and Development
- Pathology
- Plant Physiology
- Systematics and Evolution

ROBOTICS AND INTELLIGENT MACHINES (RO)

- Biomechanics
- Cognitive Systems
- Control Theory
- Machine Learning
- Robot Kinematics

SYSTEMS SOFTWARE (SS)

- Algorithms
- Cybersecurity
- Databases
- Human/Machine Interface
- Languages and Operating Systems
- Mobile Apps
- Online Learning

TRANSLATIONAL MEDICAL SCIENCES (TM)

- Disease Detection and Diagnosis
- Disease Prevention
- Disease Treatment and Therapies
- Drug Identification and Testing
- Pre-Clinical Studies