

Project Code:

## Singapore Science and Engineering Fair 2019 Entry Form

Please refer to the SSEF website (<http://www.science.edu.sg/ssef>) for details on the application process and all the submission requirements. **All documents must be received by Wednesday, 9 January 2019, 5pm.**

### PROJECT INFORMATION

*\*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.*

Type of Participation: <b>Individual / Team</b> (Please circle)	Project Category*:	Project Sub-Category*:
Title of Research Project:		

### 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:	School Level (E.g. Sec 3, IP4):
Signature:	NRIC/FIN no.:	Date: 12/01/18

#### For Team Projects:

##### Team Member 2

Full name:	School:	School Level (E.g. Sec 3, IP4):
Signature:	NRIC/FIN no.:	Date: 12/01/18

##### Team Member 3

Full name:	School:	School Level (E.g. Sec 3, IP4):
Signature:	NRIC/FIN no.:	Date: 12/01/18

**SCHOOL'S ENDORSEMENT**For 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: 12/01/18

**SCHOOL'S ENDORSEMENT**For team projects with members from different schools

<b>For team member 1</b>		
Teacher-in-charge's full name:	Teacher-in-charge's email address:	
Teacher-in-charge's signature:		Date: 12/01/18
<b>For team member 2</b>		
Teacher-in-charge's full name:	Teacher-in-charge's email address:	
Teacher-in-charge's signature:		Date: 12/01/18
<b>For team member 3</b>		
Teacher-in-charge's full name:	Teacher-in-charge's email address:	
Teacher-in-charge's signature:		Date: 12/01/18

**SSEF JUNIOR SCIENTISTS CATEGORY 2019**  
**PARENT/GUARDIAN CONSENT FORM FOR VIDEO CONTEST**

Please review the rules of the video contest at <https://science.edu.sg/ssef>. If you agree to your child/ward participating in the SSEF Junior Scientists Category 2019 according to the rules, please fill in the blanks and sign below.

I, \_\_\_\_\_ (name of \*parent/guardian) NRIC No.: \_\_\_\_\_, acknowledge that I have read, understood and approve the rules.

I hereby give permission for any images of my \*child/ward \_\_\_\_\_ (name of \*child/ward) NRIC No.: \_\_\_\_\_, captured through the video submitted by my child/ward, to be used solely for participating in the SSEF Junior Scientists Category 2019.

I declare that I have the authority to sign this release and that I have read and understood this agreement prior to signing it.

PARENT'S/GUARDIAN'S SIGNATURE:

DATE:

12/01/18

*\*delete appropriately*

## **ANNEX A – SSEF 2019 CATEGORIES (STATED IN BOLD AND CAPTIALISED) 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