

3rd Young Innovators Challenge

Students in this Challenge will design innovative and entrepreneurial concepts and prototypes to address sustainability challenges for Singapore’s green transition in the areas of health, energy, smart living, waste reduction or other impactful domains.

Students are encouraged to stretch their imagination and push their boundaries. Through this journey of addressing sustainability challenges, we hope that students can apply their knowledge in STEM to innovate, create, and pitch an idea or concept.

Task

Based on the theme “Innovative Green Transition”, the teams will identify a problem in the sustainability domain (such as Health, Energy, Smart and Sustainable Life or Others), propose an innovative solution and design a prototype to address the challenge.

Categories in the Competition

Category A (University) – Students from Nanyang Technological University

Category B (Pre-University) – Students from Junior Colleges, Integrated School (Years 5 & 6) and Polytechnics

Eligibility

- Full-time matriculated students at Nanyang Technological University, Junior Colleges, Integrated Programme Schools (Years 5 & 6) and Polytechnics in Singapore.
- Student teams from Category A (Nanyang Technological University) will be able to apply directly. (max 4-6 students per team)
- Student teams from Category B (Pre-University) should be nominated by their respective schools. Each school should have at least one accompanying teacher for coordination and supervision. (max 4-6 students per team, and up to 2 teams per category per school)
- Teams and teachers must be able to commit for the full duration of mentorship and competition.
- Students must provide valid email addresses and contact numbers for communications and online collaboration purposes

Judging Criteria

- ✓ Creativity ✓ Originality ✓ Feasibility
- ✓ Level of Impact on the chosen sustainability domain/topic

Competition Registration



Scan the QR code

Competition Process



Competition Schedule

Preliminary Round

- Submission of Proposals (**Deadline: 23 Feb 2023**)
- Result Announcement (**06 Mar 2023**)

Semi-Final

- Semi-Final (format will be in-person unless any changes to Safe Management Measures by Ministry of Health) (**21 Mar 2023**.)

Mentoring for Semi-Finalists (22 Mar – 16 Apr 2023)

- Dates to be arranged between Semi-Finalists and Mentors

Grand-Final

- Submission of Prototype and Final Presentation Materials (**15 May 2023**)
- Grand Final & Award Ceremony (format will be in-person unless any changes to Safe Management Measures by Ministry of Health) (**22 May 2023**)

1. PRELIMINARY ROUND

1. Essay (300-word limit) in pdf format + Video (5 mins max) in mp4 format. Essay and video are judged as one submission. For example, the video may be used to illustrate why a problem is chosen and allow students to illustrate their ideas clearly.
2. The essay should include a short description, a concept of the solution which the team proposes for addressing a sustainability domain. The concept could be explained in words, drawing or video with indication on how the concept is realised.
3. The essay must be in English. Submission in any other languages will be disqualified.
4. In the title of the essay and video submission, teams should indicate School name, Team name, Category (Pre-University or University) and Sustainability Domain. For example, the essay and video are titled as “ABC School, Team A, Pre-University, Water”
5. Please email this form with the completed essay and video from the team to Ms Nicole Chew at cs-nicole.chew@ntu.edu.sg and Ms Marilyn Tan at marilyn.tanwl@ntu.edu.sg.
6. Deadline of submission of essay and video for Preliminary round is **23 February 2023, 23:59 pm**.
7. Download the YIC Essay Submission Template [HERE](#) and submit the essay in pdf format, and the video in mp4 format. Submissions should be registered by Teachers for Category B (Pre-University).

2. SEMI-FINAL

1. The Semi-Final will be held on 21 Mar 2023 at Nanyang Technological University.
2. In the Semi-Final, students will present a description of their identified problem with a mock-up prototype of their proposed solution in front of a panel of judges and audience.
3. Five teams of each category will be selected for Mentorship and Grand Final.

3. MENTORSHIP SESSION (compulsory for all Finalist Teams)

1. Finalist Teams will be mentored by NTU mentors to provide learning support, expertise and resources for improving their prototypes. This is a 1-to-1 mentorship for each team using a hybrid-mode where guidance on soft and hard skills, i.e., technical development, entrepreneurship, and presentation, is provided.
2. Mentoring Sessions will take place between **22 Mar – 16 Apr 2023**.
3. The mentoring sessions will be arranged between the mentor and respective team.

4. GRAND FINAL AND AWARD CEREMONY (22 May 2023)

Competition Requirements

1. All finalists are required to submit their Prototype and Final Presentation Materials by **15 May 2023**.
2. Finalists will be judged based on a 20-min presentation and demonstration of prototype, and 5 mins of Q&A on 22 May 2023.
3. The presentation should cover the process in design thinking including:
 - a. How 'user' needs were ascertained
 - b. Problem definition
 - c. Possible solutions explored
 - d. Creation and demonstration of a prototype
 - e. Usefulness/effectiveness to users
4. The team's work must be original and does not contain plagiarised content. It should not infringe on any intellectual property rights or copyright regulations. However, adaptation to improve existing products may be accepted.
5. Teams cannot claim the cost of producing prototypes for the competition.
6. NTC reserves the right to make all changes to the competition. No claims may be made by members of the teams as a result of the changes.
7. By joining the competition, the teams permits NTC to use their works in the competition for publicity, media, publication, purposes etc.
8. Judges' decisions are final.

The 3rd Young Innovators Challenge Awards

AWARDS

Category A: Nanyang Technological University

First Prize: \$10,000

Second Prize: \$8,000

Third Prize: \$5,000

Category B: Junior Colleges, Integrated Schools (Years 5 & 6) and Polytechnics

First Prize: \$10,000

Second Prize: \$8,000

Third Prize: \$5,000

Certificates will be awarded to all participants in the Grand Final.