



Application Brochure **申请指南**



2024

全球目标创意挑战

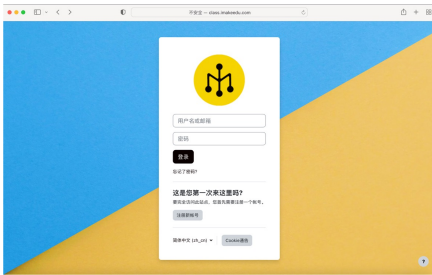
A Students Challenge For The Global Goals



copyright@MIYICA

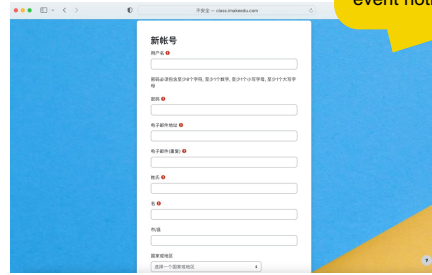
Procedure

1. Register an account



Log into 「iMake Education STEAM Course Platform (class.imakeedu.com). New users need to register first;

Attention: 1. The red exclamation mark is required. 2. Fill in your regularly checked email address to receive confirmation email and event notification in time.

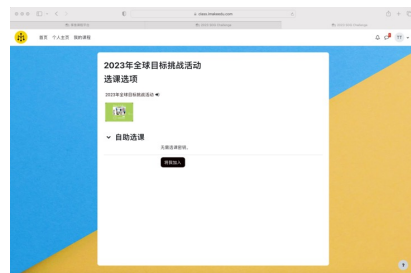


Fill in your information, then click the 「Register New Account」 button to complete the registration. Check your email for confirmation.

2. Add 「CHALLENGE」

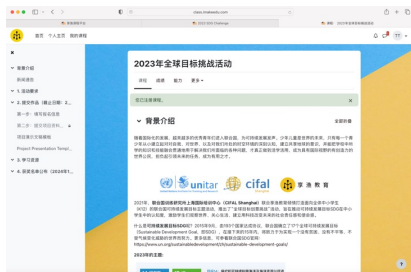


Log in with your username and password, and you will land in Dashboard page. Click 「A students Challenge for The Global Goals 2023」 .



Add 「A students Challenge for The Global Goals 2024」 in your courses

3. Submit your work



Once you enter the course page, you can find all the information there.



Scroll the page down to "2-Submit Your Work", fill the Event Registration Form and then submit Project Materials as instructed on the page.



Submission

1. Presentation

The project presentation is the most important document for judging. It needs to include problem statement, its social benefits, solution design, prototyping, test results, etc. The specific requirements include:

- Format: The project presentation must be a single PDF document, no more than 12 pages, no larger than A4 size, landscape mode.
- Content: Please refer to "Project Presentation Template".
- Layout: beautiful and tidy, logical and easy to read.

2. Project Video

The project video requires the team to introduce their project within 2 minutes, in Chinese or English. Specific requirements include:

- Content: team name, member name, city, school, project name, problem statement and its impact, proposed solution, prototype demonstration, process
- Scene: All members of the team should appear in the video and present next to the prototype.
- Recording: max 2 minutes, no editing, continuous shooting, proper lighting, try to keep people in the center of the screen, clear and audible voice, horizontal video

3. Prototype

- Prototype is the best way to show the engineering design and its effect. The prototypes should be well made and show the actual effects of key functions.
- In order to facilitate the fair evaluation of the engineering and technical capabilities of the participants, open-source hardware and software such as micro:bit, Arduino, ESP32, and Raspberry Pi should be used.
- Prohibited items: Prototypes must not contain flammable and explosive items, strong light devices, animals and animal products, controlled knives, guns and similarly shaped devices, and any items that may cause personal injury.
- The auxiliary materials to be submitted include:
 - Photo or short demo video (no more than 1 minute)
 - Program source file
 - 3D design file (if any)

4. Project Log

- The project log is a record of the innovation process and should clearly document the different project phases. Although it is optional, it can show the judges your real effort and is an important basis for evaluation. The log doesn't need to be meticulously crafted and there is no uniform format.



Judge Criteria

Judge Criteria

| Category | Criteria | Score |
|--|--|-----------|
| Problem Statement and Social impact (15 Points) | State an interesting or challenging community issue | 10 Points |
| | Conduct extensive and in-depth research on the issue, including websites, interviews, books, magazines, etc. | 2 Points |
| | Definition of criteria for proposed solution | 2 Points |
| | Explanation of constraints | 1 Points |
| Practicality and Creativity of Design (30 Points) | Design a solution and explain it clearly through text, blueprints, etc. | 10 Points |
| | Project demonstrates significant creativity | 20 Points |
| Technical Strength (15 Points) | Prototypes demonstrates intended design | 5 Points |
| | Prototype demonstrates engineering skills and completeness | 10 Points |
| Implementation Result (20 Points) | Prototype has been tested extensively in multiple conditions/trials | 5 Points |
| | Sufficient test data collected to support interpretation and conclusions | 5 Points |
| | Problems found and explained, and improvements described | 5 Points |
| | Conclusions are properly drawn, and plans for future improvements suggested | 5 Points |
| Presentations (20 Points) | Presentation: the content is complete with clear logic, using diagrams appropriately | 4 Points |
| | Video that meet requirements | 3 Points |
| | Prototype materials | 3 Points |
| | Live Oral Defense | 10 Points |



Partial Judges



Dr. Yihang Li

- Founder , Nanjing Ranhui Consulting Company
- Distinguished Expert , International Science and Technology Exchange and Cooperation Center of Jiangsu Association for Science and Technology
- Doctoral Supervisor, DBA Innovation, Entrepreneurship and Incubation/Accelerator Research at Paris Business School
- executive dean, New York University and Nanjing University Joint Innovation and Entrepreneurship College
- R&D and commercialization of cutting-edge communication technology systems at Bell Laboratories in US
- PhD in Mathematics, The Johns Hopkins University



Dr. Bin Wei

- Investor, focusing on Intelligent Manufacturing
- Former Chief Engineer and Chief Scientist, GE Central Research Institute
- PhD in Mechanical Engineering, University of Nebraska
- Former Chairman, Manufacturing Chapter of the American Society of Mechanical Engineers (ASME)
- 55 international patents



Tianyue Ding

- Program Officer, UNITAR CIFAL Shanghai
- Project Coordination Officer, UNIDO & SIIMPC



Yilou Guo

- Founder & CEO, Hurun Baixue, the education company under Hurun Report Group, released the first international school ranking in China
- BS of Industrial Engineering, Tsinghua University
- MS of Engineering Management, Dartmouth College, USA
- China Final Judge, NEC National Economics Challenge
- Served as the general director of supply chain and product finance in the new energy company of Fazard Dibachi, a famous serial entrepreneur in Silicon Valley



Partial Judges



Tian Xie

- Deputy Director , Science & Technology Commission of Jing'an District, Shanghai
- Deputy Director , Information Commission of Jing'an District, Shanghai
- Member , Jing'an District Committee of the Chinese People's Political Consultative Conference (CPPCC)
- Chairman , the Youth Work Committee of the Jiusan Society in Jing'an District;
- BS and MS degrees in Physics ,Tsinghua University



Bingzhe Cai

- Head of Sensor Development and Ecosystem Team, Qualcomm China
- Consultant , Yuepu HuiChuang Industrial Intelligence Co., Ltd.
- MS in Electronic Engineering , University of Essex, UK
- Formerly employed at various mobile phone design and semiconductor companies



Xiang Wang

- General Manager, Anxin Education
- Director , Shanghai Institute of Electronics & Deputy Director , Embedded Artificial Intelligence Special Committee
- General Manager , Educational Affairs of Arm China Accelerator
- Part-time researcher , High Performance Integrated Circuit Engineering Laboratory, College of Communication Engineering, Chongqing University
- Member , China Vocational Education Association



Bin Gu

- Clinical Application Manager, Curebo Medical Technology (Shanghai) Co., Ltd.
- MS of Science in Reproductive Medicine and Clinical Embryology , Chinese University of Hong Kong
- BS of Science in Biotechnology , Soochow University
- Experimentalist with professional technical qualifications in the Jiangsu Provincial Natural Science Research Series
- Second Prize of the Suzhou Science and Technology Progress Award