

2024 ISSSP Guideline (University Students)

1. Schedule

Events	Date
Deadline of the Registration	31 May, 2024
Deadline for Submission of Preliminary Work (Only Chinese Mainland)	
Deadline for Submission of Preliminary Work	16 Jun, 2024
Qualify for the Final	20 Jun, 2024
Community Building	Jun-July, 2024
Shortlisted Team Training	
Deadline for Submission of Final Work	31 Jul, 2024
Final Contest (CUHK, Hong Kong)	11-13 August, 2024

2. Participants and Requirements

2.1 Participants

- Middle School Students Group (Invitation)
- University Students Group

Middle School Student Group: Open to global middle school students, including middle-school and high-school students. The Middle and High School Student Group will participate in [Track 1, Creative Design of a Space Experiment](#).

University Student Group: Open to global university students, including undergraduate, graduate, and doctoral students. The University Student Group can choose to participate in [Track 1, Creative Design of a Space Experiment](#) or [Track 2, Innovative Design of a Space Payload Experiment](#).

Note: This guide only applies to the University Student Group and the Social Group. For details about the Middle and High School Student Group, please refer to the relevant documents for middle and high school students.

2.2 Registration

Please register on the official website of the Contest (issp.bit.edu.cn). If there is any problem with the online registration, please send Appendix 1 for your registration to the official email address: register@issp.org.cn, with the mail subject: "2024Registration+ School Name+ Team Name".

2.3 Requirements

The number of registered teams from each organization is unlimited, but one student is limited to one team. Each team has 3-6 students, and at least 1 supervisor.

2.4 Contest Form

The contest includes two phases. Preliminary contest will be held online and Finals will be held in CUHK.

2.5 Finalist Teams

A total of no more than 45 teams from the Middle School Student Group, University Student Group combined will entry to the finals.

2.6 Expenses

No registration fee. During the finals, the Contest Organizers will provide each team with 3 complimentary accommodations & food, and other expenses will be the responsibility of the teams.

2.7 Others

The information of the registration can be modified before the Deadline of the registration. After the registration deadline, the information of the registration cannot be changed. If it is necessary to change due to special reasons, the participating team shall report to the Secretariat of the organizing committee (secretary@issp.org.cn) , and the change can be made only after the application for change is submitted and approved by the organizing committee. The organizing committee has the right to disqualify any team that changes its registration without authorization after the Deadline of the registration.

3. Themes and Contents

3.1 Theme 1: Creative Design of a Space Experiment

According to the environmental needs of the Space Station, The participating teams establish the objectives without referring to Technical Requirements illustrated in Appendix 5, then identify the corresponding scientific experiment requirements and formulate the design plan based on the environmental status of the space station.

3.2 Theme 2: Innovative Design of a Space Payload Experiment

According to the environmental needs of the Space Station and the technical requirements, the teams shall propose an innovative space payload design and build the principle prototype of the payload instrument or conduct simulation of the equipment. The Technical Requirements should be taken as the reference.

4. Awards

The number of awards for this competition is not fixed. In the finals, teams will be awarded based on their total scores as follows:

 **Gold Award (Total Scores ≥ 90): CNY 150,000**

 **Silver Award ($90 > \text{Total Scores} \geq 80$): CNY 50,000**

 **Bronze Award (Total Scores < 80): CNY 10,000**

Additionally, The competition also set special awards, like Best-Community, Best-Poster, Best-Hardware/Simulation, Best-Presentation, and Best-Instructor awards.

A team that chooses Track 2 will receive **CNY 10,000** after entering the final contest. Meanwhile, Gold award winners will possibly be selected as potential space flight experiment projects for key cultivation.

5. Participation and Scoring Rules

All entries will be selected by the evaluation committee from three aspects of science, innovation and science popularization in accordance with the principle of justness, openness and fairness. The review process and results are publicized in the whole process, and the process materials can be verified by 5 organizers as needed. Submission requirements are as follows.

5.1 Submission Requirements and Scoring Rules for the Preliminary Contest

In the preliminary contest, teams need to submit Team member introduction and Work templates for the preliminary contest.

Notes: Team member introduction is detailed in Appendix 2, Work templates for the preliminary contest is detailed in Appendix 3. The supplementary materials can submit the design scheme completed by Auto CAD, Pro-E and other software, JPG format pictures, full-text report and other supplementary introduction materials (The supplementary materials are submitted in the form of packaged folders).

The above documents shall be submitted in PDF format.

5.1.1 Submission Requirements

All the documents should be uploaded to the contest official website.

5.1.2 Scoring Rules

Table 1: Scoring Rules of Preliminary Contest for Theme 1

No.	Type	Score
1	Demand analysis& Research objectives	15
2	Research contents& Novelty	25
3	Research scheme& Technical approach	25
4	Teamwork	15
5	Research progress& Expected results	10
6	Social value& Significance	10
Total Score		100

Table 2: Scoring Rules of Preliminary Contest for Theme 2

No.	Type	Score
1	Requirement analysis	15
2	Comprehensiveness& Rationality of payload design	25
3	Technical Feasibility	25
4	Teamwork	15
5	Research progress& Expected results	10
6	Social value& Significance	10
Total Score		100

5.2 Submission Requirements and Scoring Rules for the Finals

The whole process points will be taken in the final contest. Each participating team that advances to the finals will receive a dedicated community page and expert training. In the Community, The teams should feature content related to promoting the competition's concept, facilitating

team collaboration and communication, showcasing social service and societal applications, and presenting project plans.

Teams in the final list shall submit all files including posters in English, PPT, work simulation diagram and work display/real objects/principle prototype/simulation design, and other supplementary materials if needed.

Each finalist team shall make a 15-minutes presentation about its work and attend a 10-minutes Q&A session. Both the presentation and Q&A will be in English.

5.2.1 Scoring Rules for Final Contest

Creative design of space station experiment and Innovative design of space station payload experiment will be scored as two themes separately based on different technical emphasis in the final contest. For more details are as follows.

Table 1: Finals Scoring Rules of Track 1

No.	Item	Contents	Judge	Subtotal
1	Community Building (Until 31 st Jul)	Publicize contest concept	The organizing committee	10
		Team cooperation&communication		
		Communications specialist		
		Project scheme display		
2	Poster (Until 31 st Jul)	Include Team Information, Background Introduction, Research Content And Methods, etc	Judge	10
3	Finals	Topic selection		10
4		Research content and program		30
5		Work display/simulation design		20
6		PPT Presentation		15
7		Artistry		5
Total				100

Table 2: Finals Scoring Rules of Track 2

No.	Item	Contents	Judge	Subtotal
1	Community Building (Until 31 st Jul)	Publicize contest concept	The organizing committee	10
		Team cooperation&communication		
		Communications specialist		
		Project scheme display		
2	Poster (Until 31 st Jul)	Include Team Information, Background Introduction, Research Content And Methods, etc	Judge	10
3	Finals	Topic selection		
4		Research content and program		30
5		Work display/simulation design		25
6		PPT Presentation		10
7		Artistry		5
Total				100

5.2.2 Submission Requirements

5.2.2.1 Requirments of Community Building

- The teams should complete the content to be displayed on the social media website before 31st Jul(check the final scoring details); In order to better promote international communication within the community, the unified use of English to publish news in the community.

5.2.2.2 Poster

(1) Submission Format

- Amount: One
- Size: 60CM wide * 90CM high
- File size: For JPG formats **larger than 72dpi**, if your poster has a picture inserted, make sure the picture is more accurate than 72dpi and the file size does **not exceed 10M**.

(2) Content Guidelines

- The content of the Poster should be clear and logical, the font is not limited, the layout should be concise and clear, both black and white and color are available.
- Poster needs to be rich in pictures and texts. It fully displays the theme of space science creativity with rich content, clear diagrams and concise language, and summarizes research results, main understandings and academic innovations. Including but not limited to: work name, team information, background introduction of work, research content and method, results presentation method and acknowledgement, etc. Encourage the use of 1-3 images and tables in the poster design.

- The title of the work, team information, and track category should be marked on the top of the Poster.

(3) Submission time

- Submit before 31st Jul.

Submit Email: register@issp.org.cn

Subject: “2024Poster+ Theme 1/Theme 2+ Team name”

5.2.2.3 Presentation

(1) Format Requirement

- File type: PowerPoint slides or Prezi presentations; if the video needs to be played, please submit it in the form of a compressed package.
- Font: Arial
- Reference font size: Title 36-44; Subtitle 28-36; **Text not smaller than 22.**
- PPT slide size: 16:9

(2) Content Guidelines

- Adjust the display method according to the design work, so that the whole display process is logically clear and focused. The focus of this item is to show your work to Juries, which is an important way for Juries to understand the work.
- The content includes but is not limited to the title, team name, author and affiliation, research background, research content and program/technical approach, result presentation, social application, future direction, etc.

(3) Other Requirements

- On-site presentation time should not exceed 15 minutes.

(4) Submission Time

- The participating teams will submit PPT/Prezi, and Work Report to the Organizing Committee before 30th Apr(all submitted materials will not be returned), and display the work display/real objects/principle prototype/simulation design on their own at the competition site.

Submit Email: register@issp.org.cn

Subject: “2024PPT+ Theme 1/Theme 2+ Team name”

4.3 Dispute Settlement

If the participating team has any objection to the evaluation results, the team leader teacher authorized by administrative department in charge

of the unit can make the appeal to the organizing committee (secretary@issp.org.cn) for arbitration. The results of the arbitration will be sent to the participating teams via E-mail within five working days after the application.

6. Special statement

- Works submitted shall not infringe others' intellectual property rights.
- Works that have participated in other competitions or used works previously published in public are not allowed to participate in the contest;
- The intellectual property rights of the submitted works belong to the participants. The organizing committee of the contest has the right to edit, publish and promote the works for non-profit purposes. All teams participating in the contest shall be deemed to have confirmed and voluntarily abide by the agreement on intellectual property rights;
- All submitted works shall not violate the relevant laws and regulations of both China and the countries where the participants are from. And the participating teams and individuals will be responsible for the consequences of violating legal issues by themselves.
- Please contact the organizing committee for any questions arising from this notice (secretary@issp.org.cn), and the right to the final explanations belongs to the Organizing Committee.