

Scoring Rules of Preliminary Contest for International Space Science and Scientific Payload Competition (ISSSP)

I. Process for the Preliminary Contest

1. Classified submission
 - All the works in Creative Design of Space Experiment and Innovative Design of Space Payload Experiment will be classified to three categories (Life Science, Medicine & Interdisciplinary Science□ Science, Materials & Others□ Engineering Technology).
 - The total number of teams in the final will not exceed 30. The organizing committee determines the promotion quota of each group according to the proportion of the number of works.
2. Two-way anonymous evaluation
 - According to the above three categories, There shall be establish a judges database which is composed of authoritative experts in relevant fields.
 - Each work will be assigned to three-seven judges in accordance with its scientific category and judged anonymously. The judges will complete the review within the limited time, and make a preliminary evaluation and give specific scores in accordance with the scoring items listed below.
3. Total score and ranking
 - The organizing committee of the competition will remove the highest score and the lowest score according to the scores given by the judges, and take the average score as the final score of each entry in the preliminary contest.
 - According to the score ranking from high to low, the works of the preliminary contest will be ranked in the group.
4. Announcement on the teams in the final
 - According to the score ranking from high to low, works with the top 50 percent of final scores and within the promotion quota of each group will enter the final contest.
 - The results will be announced via the official website of the contest and email in Aug 1, 2022

II. Submission Requirements for the Preliminary Contest

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

The above documents shall be submitted in PDF format.

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).

- All the documents should be submitted to the mailbox: register@issp.org.cn, with the mail subject: "Works+ School Name+ Team Name+ Name of the works".

III. Scoring Items for the Preliminary Contest

Scoring Rules of Preliminary Contest for Theme 1

No.	Type	Standard of Review	Score
1	Demand analysis & Research objectives (15 points)	A. Has a unique understanding of space resources, put forward clear scientific questions and research objectives. (11~15) B. Has a basically understanding of space resources, put forward scientific questions and research objectives. (4~10) C. Insufficient understanding of space resources, unclear explanation of scientific problems and research objectives. (0~3)	
2	Research contents& Novelty (25 points)	A. The research content is comprehensive and accuracy, the design is novel and creative. (21~25) B. The research content is basically comprehensive and accuracy, the design is basically novel and creative. (6~20) C. Lack of comprehensive and accuracy, lack of novel and creative. (0~5)	
3	Research scheme& Technical approach (25 points)	A. The technical index, research scheme, technical approach and research method are reasonable and feasible. (21~25) B. The technical index, research scheme, technical approach and research method are basically reasonable and feasible. (6~20) C. Lack of reasonable and feasible. (0~5)	
4	Teamwork (15 points)	A. The work structure is clear, the team division is clear, and the characteristics of collaboration and interaction are prominent. (11~15) B. The work structure is basically clear, the division of labor of the team is basically clear, and there has cooperation. (4~10) C. The work structure is not clear, the division of labor	

		of the team is not clear, and there has no coordination. (0~3)	
5	Research progress& Expected results (10 points)	A. The research progress planning is reasonable, the expected results are clear. (9~10) B. The research progress planning is basically reasonable, the expected results are basically clear. (4~8) C. Lack of research progress and expected results. (0~3)	
6	Social value& Significance (10 points)	A. The expected benefit is very good and there has great innovation. (9~10) B. The expected benefits are relatively good and there has some innovation. (4~8) C. The expected benefits are not obvious and there has no innovation. (0~3)	
Total Score			

Scoring Rules of Preliminary Contest for Theme 2

No.	Type	Standard of Review	Score
1	Requirement analysis (15 points)	A. The research background is clearly explained, has a better understanding of technical requirements and payload design constraints. (11~15) B. The research background is basically explained, has understanding of technical requirements and payload design constraints. (4~10) C. Lack of understanding of research background, technical requirements and payload design constraints. (0~3)	
2	Comprehensiveness &Rationality of payload design (25 points)	A. The elements of payload design are comprehensive, the design scheme is feasible, technical route is clear, has the new technologies and methods. (21~25) B. The elements of payload design are basically comprehensive, the design scheme is basically feasible. (6~20) C. The elements of payload design are not comprehensive, the design scheme is not feasible. (0~5)	
3	Technical Feasibility (25 points)	A. The payload design index is clear, the calculation/simulation verification analysis is reasonable, and the technical approach is feasible. (21~25) B. The payload design index is basically clear, the calculation/simulation verification analysis is basically reasonable, and the technical approach is basically feasible. (6~20)	

		C. The payload design index is not clear, the calculation/simulation verification analysis is not reasonable, and the technical approach is not feasible. (0~5)	
4	Teamwork (15 points)	A. The work structure is clear, the team division is clear, and the characteristics of collaboration and interaction are prominent. (11~15) B. The work structure is basically clear, the division of labor of the team is basically clear, and there has cooperation. (4~10) C. The work structure is not clear, the division of labor of the team is not clear, and there has no coordination. (0~3)	
5	Research progress& Expected results (10 points)	A. The research progress planning is reasonable, the expected results are clear. (9~10) B. The research progress planning is basically reasonable, the expected results are basically clear. (4~8) C. Lack of research progress and expected results. (0~3)	
6	Social value& Significance (10 points)	A. The expected benefit is very good and there has great innovation. (9~10) B. The expected benefits are relatively good and there has some innovation. (4~8) C. The expected benefits are not obvious and there has no innovation. (0~3)	
Total Score			