

20. Creative Project

Theme: New Global, Future Medical

Level : Junior / Senior

The definition of "New World Technologies and Future Medicine" is the application of scientific knowledge, creativity, and various skills to create new things or improve existing ones in a valuable way to cope with global changes, elevate healthcare, and treat diseases using intelligent technologies that can be practically applied to solve problems and meet fundamental human needs, while also enhancing efficiency, generating benefits in various fields, and providing convenience for humans.

Topic: No restriction on presentation topics

Criteria for Innovation and Invention Projects

1. The developed innovation and invention project must have clear, step-by-step working methods or processes following the 7 technological steps as follows:
 - (1) Identify the problem or need (Identify)
 - (2) Information gathering
 - (3) Selection
 - (4) Design and making
 - (5) Testing to see if it works
 - (6) Modification and improvement
 - (7) Assessment
2. The development of the innovation and invention project should consider benefits and cost-effectiveness in creating the workpiece, applying studied and researched knowledge to develop it.
3. The innovation and invention project should be a new workpiece or an extension of other projects previously submitted for competition, with development, modification, or extension to make it different from the original.
4. The innovation and invention project can be a real work or a prototype, must be easily movable, and must have a size not exceeding 100 cm in width and 100 cm in length, with unlimited height.
5. The competing project team must prepare an A0-sized poster themselves; the organizers will provide boards and tables.

Method for Evaluating Project Characteristics

- Contestants must submit a PDF file of the project summary document (attached document).

Scoring Criteria (Total 100 Points)

Topic / Title	Scoring Criteria (Total 100 Points)	Full Score Score Obtained	Full Score Score Obtained
Significance and Value	Significance and importance of the concept, background, project goals, or problem to be solved	5	
Objectives of the Project	Alignment with the concept and project topic; the background of the project aligns with the project goals or the problem to be solved	5	
Design	Clear and comprehensive explanation of the project's components	5	
Working Process	Clear explanation of the project's working process and steps, characteristics, details, or usage methods, along with an explanation of how design processes and technology are applied	10	
Summary of Results or Testing	Clear explanation of the working results or trial testing results, ensuring they align directly with the established objectives and goals	10	
Complexity of Working Techniques	Application of correct principles, modern methods, advanced techniques, or sophisticated procedures	10	
Promotion and Inspiration of Innovation and Invention	Being a novel creation or an innovation built upon existing things, which can be practically applied and beneficial to the goals	15	
Impression	Aesthetics or design that conveys new perspectives	5	
Explanation, Demonstration, and Presentation (on YouTube)	Complete, clear, and easy-to-understand presentation and explanation of working principles and demonstration methods, with step-by-step demonstrations achieving successful target results	10	
Creativity	Suitability of the project format to the problem, being a novel creation or uniquely extended from basic foundations	10	
Material Usage	Cost-effectiveness and appropriate application of materials in construction	5	
Equipment Selection	Creative selection of equipment, including self-developed components or creatively applied off-the-shelf market items	5	
Performance Capacity of the Innovation and Invention Project	Versatility of operation (multi-functional capability) or specialized function in a specific aspect	5	
Total			

Project Summary Document (to be submitted as a PDF file)

Project Title.....

School / Team Name.....

Member 1) _____

Member 2) _____

Member 3) _____

Member 4) _____

1. Idea or Background of Creating the Technology Project: "New Era World and Future
Medicine"

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2. What are the objectives of making the technology project "New Era World and Future
Medicine"?

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3. What are the components of the design for the technology project "New Era World and Future
Medicine"?

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4. What are the processes and working steps of the technology project "New Era World and
Future Medicine"?

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5. Summary of operation or trial testing results

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6. Key Highlights of the Project: Modern-Era Technology and Future Medicine

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7. How can it be applied in the future?

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