
Competition Criteria - FUNDAMENTAL

Scoring Rubric for Judging

The categories and criteria are listed below. Each PRESENTER will receive a score in all categories, and the award will be determined with the overall scores. Scoring will be defined as 0-5 scale.

1. Novelty & Inventiveness - 20

- i. The inventor/researcher has a clear and deep understanding of the problem related to the invention.
- ii. The idea is clear, innovative and presents a compelling answer to the question "What value will you create and for whom?"
- iii. The idea is new and inventor/researcher has the ability to explain about the differences with other similar technology and competitors.
- iv. The idea and technology is not "obviously" similar with the existing technology or product.

2. Applicability - 10

- i. Due diligent - look for evidence that due diligent was carried out prior to the innovation work done
- ii. Understand the existing application and relevant industries.
- iii. Usefulness in problem solving and its impact to economy/social - specific problem/regional problem/global problem
- iv. Useful to others and applicable as it is may be useful to others with modification/improvement

3. Product/Technology Readiness - 10

- i. Completeness/Maturity level of the invention that is measured using standard Technology Readiness Level (TRL) evaluation.
- ii. Expected TRL for fundamental category is **4** which is the research had been validated in lab scale. Higher TRL will give extra strength to the invention.
- iii. Invention/Research must at least complete the fundamental findings thru lab experiment and has contributed to any knowledge based outcomes such as publication, research proposal, technical report, fund etc.

4. Research Achievement – Publication, Fund & Talent Development - 30

i. Publication - 15

- a) The research outcome provides a significant contribution to the body of knowledge.

- b) Publication in Cited Journal/International Journal/Referred Journal/local journal/book/magazine/newspaper/technical report/TV appearance
- c) Co-joint publication with external partners: academia, research institute, industry, or international institutions.
- d) Pamphlets about the product invention available

ii. **Research Fund - 8**

The inventor had received grant/fund for the development of the invention and has the proof of the grant received.

- a) Value of grant
- b) Type of grant: university, national, industry, international
- c) Higher value will get higher mark

iii. **Talent Development - 7**

The inventor/researcher has produced undergraduate, master or PHD students from the invention/research.

- a) None
- b) Undergraduate and master graduates
- c) Undergraduate, master and PhD graduates

5. Intellectual property - 10

The invention has been protected by any type of IP protection such as patent granted, patent pending, utility innovation, industrial design, trademark, copyright and other type of IPs.

6. Commercial potential - 10

- i. Market potential/Social benefit - need evidence that market survey/study/discussion with relevant industries/agencies being carried out, feedback from potential users are available
- ii. Potential market size - local/regional/country/global
- iii. Industry collaborator - evidence of collaboration with industry/business partner.

7. Level of Impact - 10

The category of impact that the invention may contribute either to community, industry, environment or others and the size of impact either to very specific target group, national level or international level.

- i. Unclear impact will affect to the low mark
- ii. Contribution to the improvement of community, industry and environment at the national and international level will give higher mark

8. Presentation and Other Strength - 5

- i. Was the presentation professional and well-practiced?
- ii. Is there anything else that the presenter has done exceptionally well?
- iii. Are there any additional strength that can be considered as a value added to the invention?
- iv. Outstanding presentation with comprehensive infographic poster and product video, and extra value such as MoU, MoA, industrial and community collaboration, very niche area that might contribute to national agenda etc.