Organizer 國立清華大學 半導體研究學院 College of Semiconductor Research

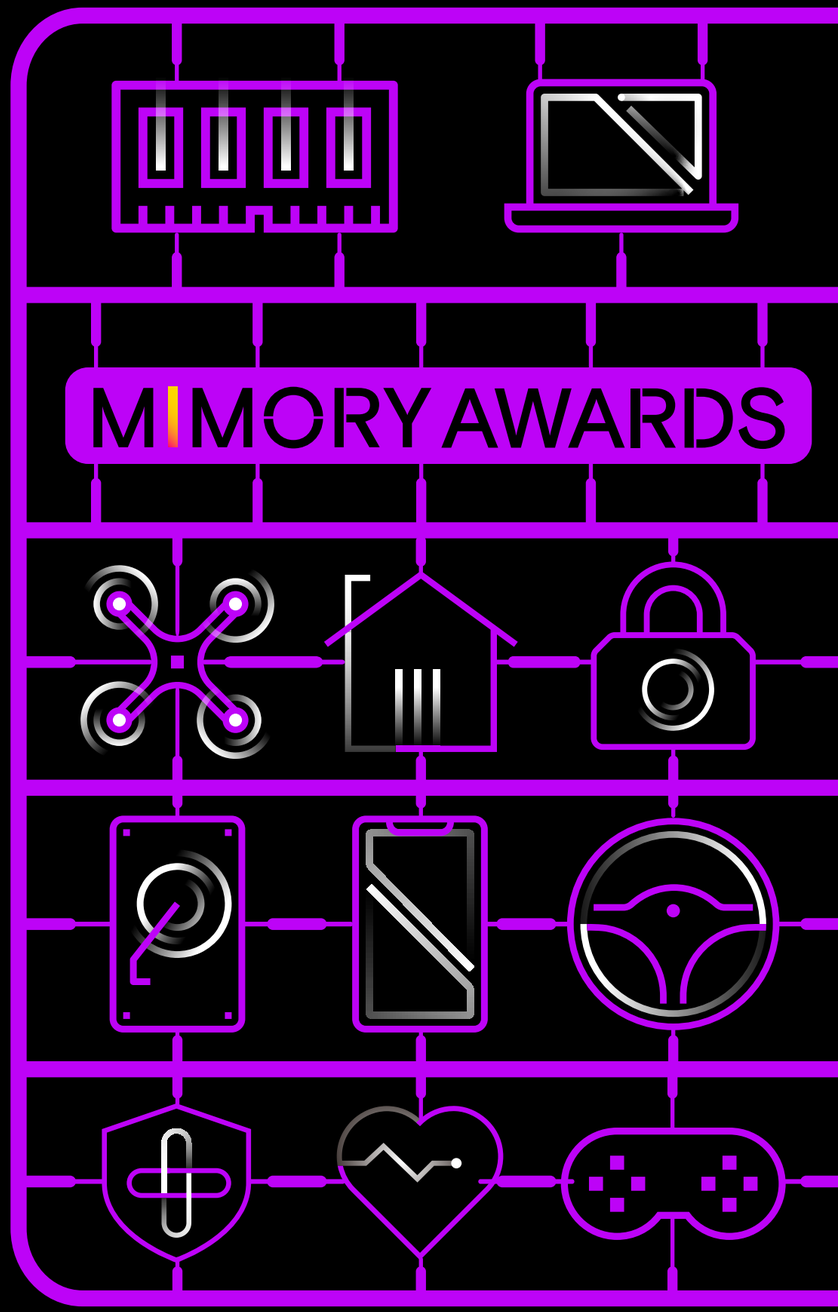
Title sponsorship by micron

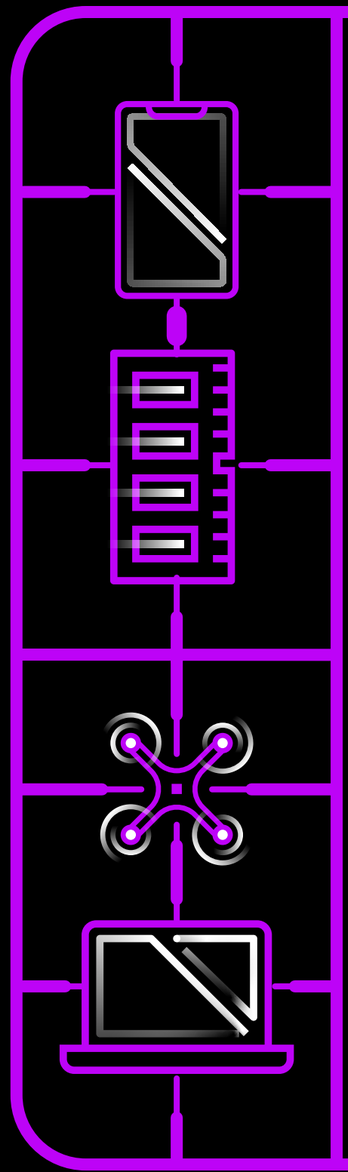
SI+IDEA

Information Pack

Micron Mimory Awards

NOV.2025

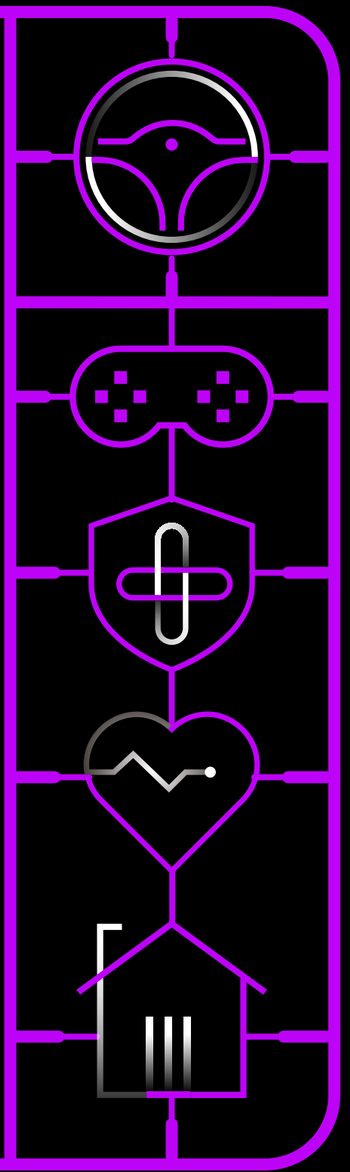


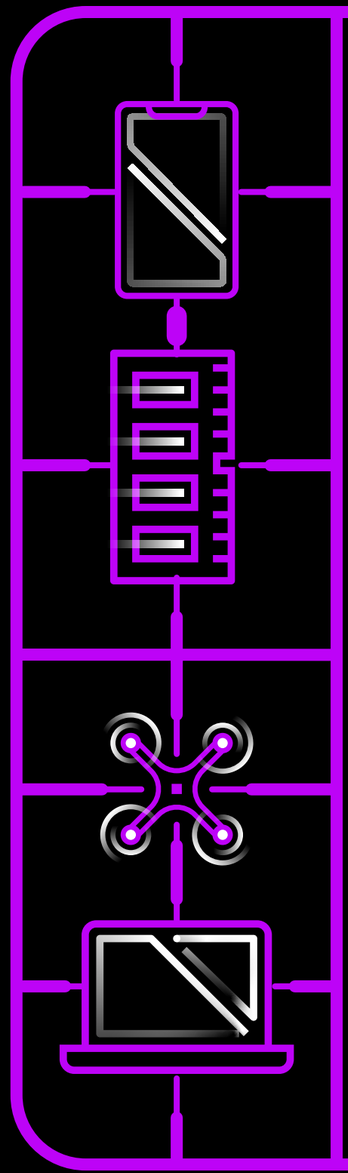


Event Mission

Promotion of innovation in the semiconductor industry to bring about technological progress and industry upgrade

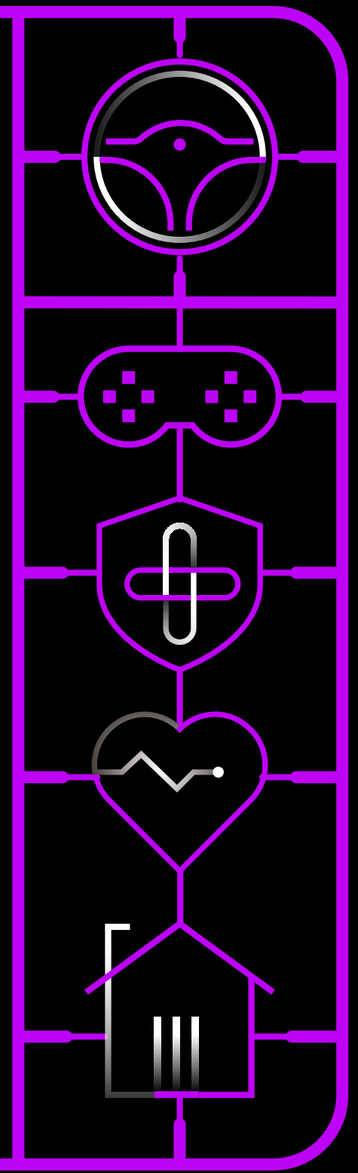
Through the Mimory Awards, we hope to encourage university students to explore new concepts, technologies, and solutions in the field of semiconductors. Such exploration will not only contribute to advances in semiconductor technology but also stimulate the development and upgrading of the industry as a whole. We believe that the competition will give competitors the opportunity to demonstrate their creativity and professional knowledge. They will also connect and cooperate with talented people from different backgrounds which will in turn inspire even more outstanding ideas and innovations. We hope this competition will become a platform for innovation in the semiconductor sector, and lead to technological breakthroughs that bring more value and have a greater influence on society.





Competition Theme

Enriching the lives of all humanity through changes in how information is used



MIMORY AWARDS

Competition and Judging Rules

Eligibility

Registration Category

Consultation with Industry Mentors

Event Timetable

Judging Criteria

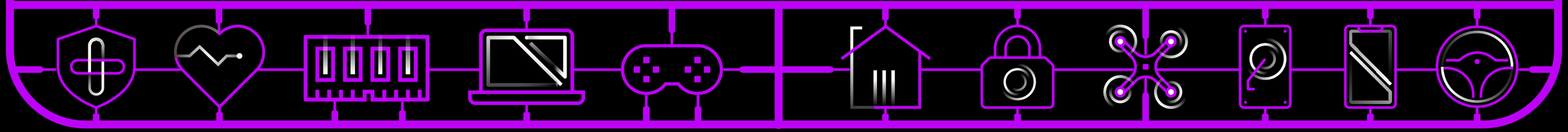
Competition Rules

Eligibility

- Registration is open to all current full-time students, freshman and above (including graduate and post-graduate students) but excluding in-service students and teachers, at universities and colleges in Asia, regardless of their nationality.

- Each team may have up to four members. Teams with diverse backgrounds made up of people from different disciplines/ nationalities/ genders/ years/ faculties/ universities are encouraged.

- Each team must have a current member of a university faculty member as their supervisor. There is no limit on the number of teams that each supervisor can advise.

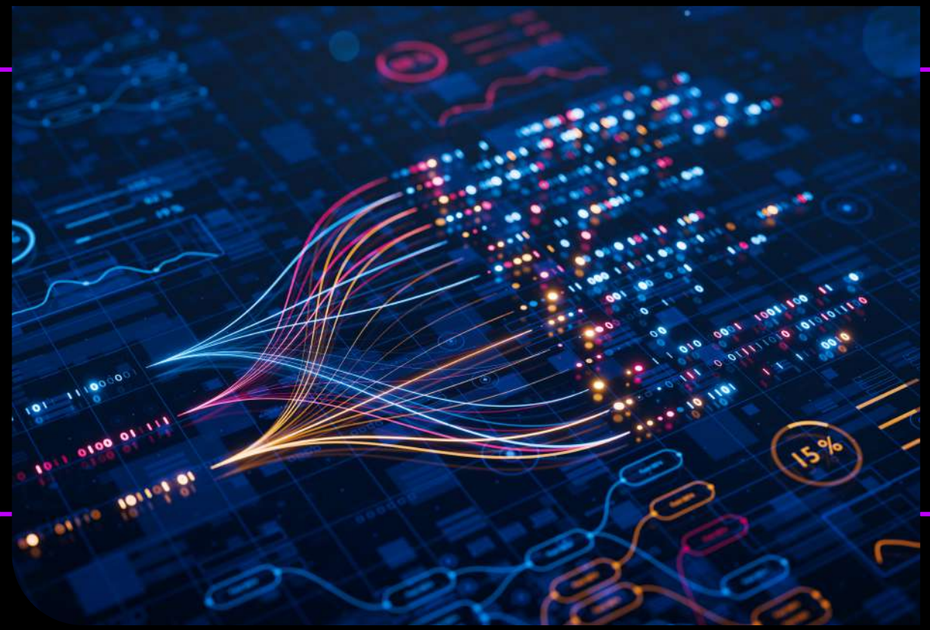


Registration Category

MIMORY AWARDS

1.

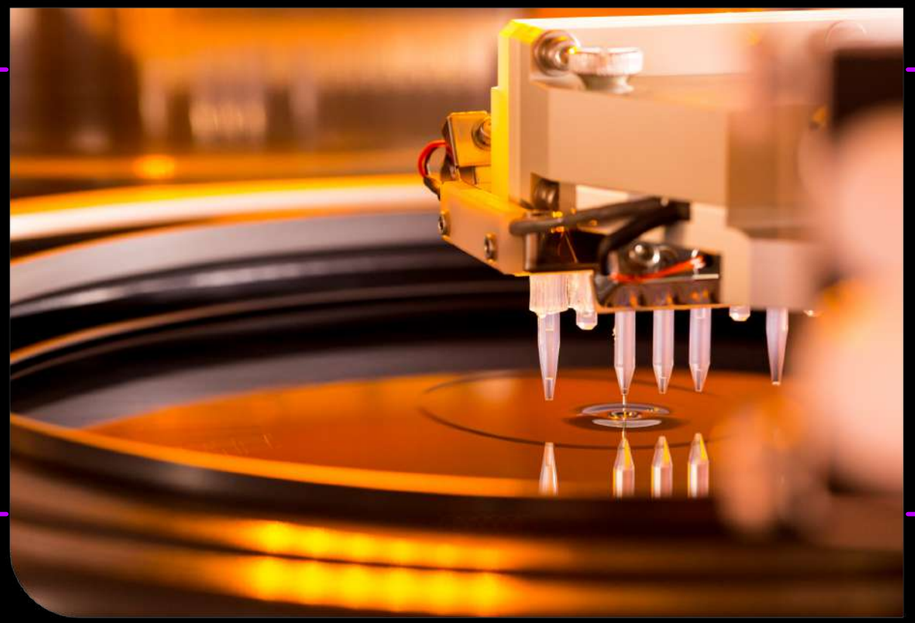
Advanced Process Technology Development Category



includes but is not limited to the following topics:

- Development of Next-Generation Memory Processes
- Development of Logic Processes
- Development of Third-generation Semiconductor Processes
- Advanced Packaging Process Technology
- Development of 3D IC Process Technology
- High-Bandwidth Semiconductor Process Technology

2. Next-Generation Semiconductor Applied Materials Category



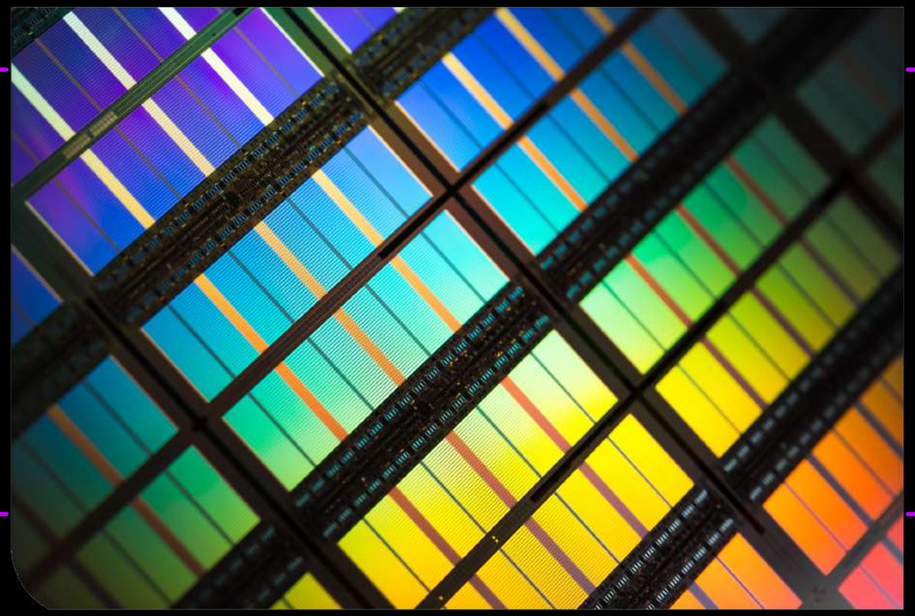
includes but is not limited to the following materials:

- Gallium Arsenide (GaAs)
- Gallium Nitride (GaN) and Silicon Carbide (SiC) based Next-generation Semiconductor Materials
- Advanced Yellow Light Resist Materials
- Advanced Packaging Application Materials
- Process Chemicals
- Special Process chemicals

Registration Category

MIMORY AWARDS

3. Device Design and Development Category



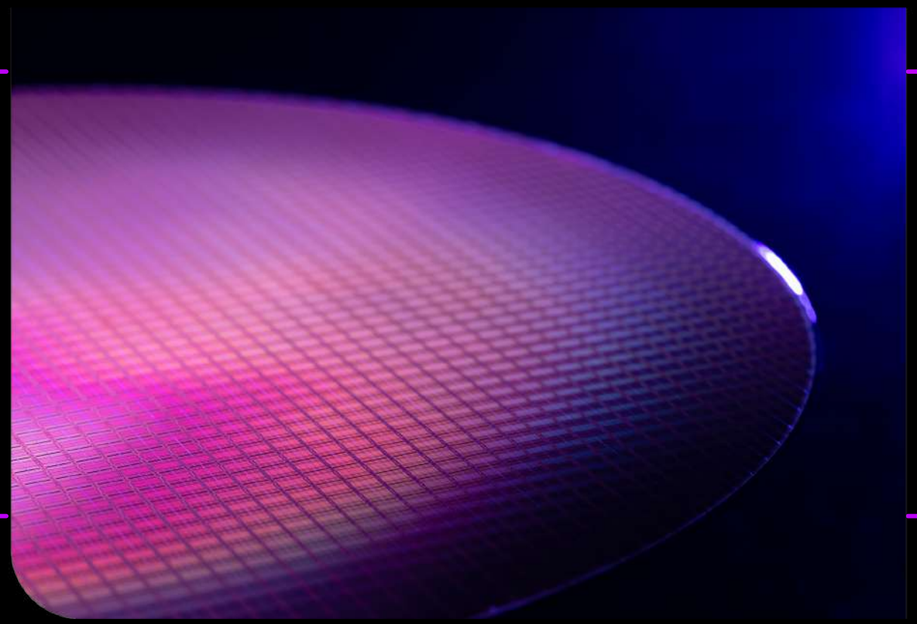
includes but is not limited to the following topics:

- Memory Component Circuit Design
- Simulation Technology Development

Registration Category

MIMORY AWARDS

4. Semiconductor Production and Manufacturing Category

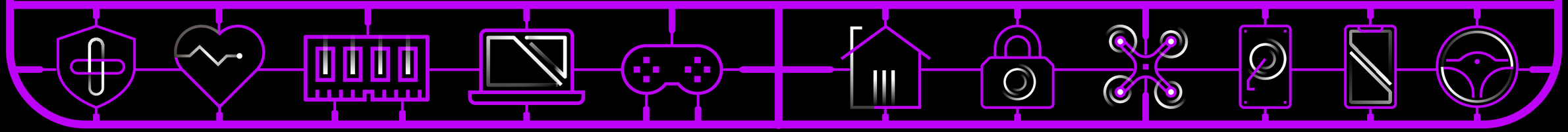


includes but is not limited to the following topics:

- Advanced Measurement Technology
- Development of Real-Time Process Monitoring Technology
- Smart Manufacturing
- Development of Automation Technology
- ESG Sustainability

Consultation with Industry Mentors

- An industry mentor will be assigned by Micron to each team in the finals. The competition is between student teams so industry mentors will serve as consultants only.
- In the interests of fairness, industry mentors will only serve as consultants and will not be involved in the judging.
- We will be hosing online meetings and providing each team with the contact details of their industry mentor. Further consultations will be conducted through ZOOM meetings. Teams can schedule consultations with their industry mentors directly.



MIMORY AWARDS

Event Timetable

Event Timetable

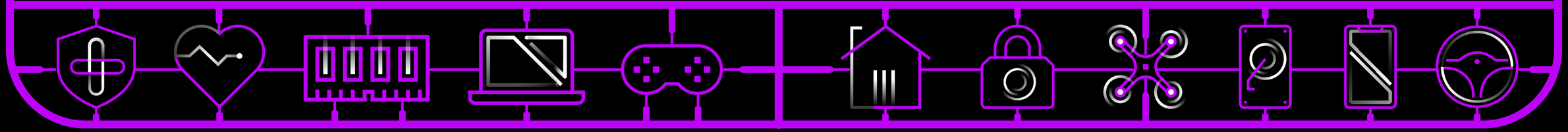
MIMORY AWARDS

Online Registration
(Review of Eligibility)
From now to January 13, 2026 (Tue)

Preliminary Proposal Submission
Submission window is from passing of eligibility review to 23:59 on February 23, 2026 (Mon)

Announcement of Finalists
Announcement on March 18, 2026 (Mon)

Final / Award Ceremony
April 29, 2026 (Wed)



Judging Criteria

Judging Criteria

Preliminary Round

MIMORY AWARDS

Item	Definition	%
Completion and quality	• Completeness of proposal and quality of presentation • The problem and target are clearly defined	15%
Data analysis	• Thoroughness of supporting evidence and data collection • Effective use of tools for data analysis (including AI tools and new technologies) • Usability	25%
Innovation	• The logic and correctness behind the formulation and selection of proposal • Creativity • Actual benefits and influence	35%
Feasibility & Difficulty	• Construction of feasibility model, verification of root cause, and analysis of variance	25%
Diversity	• The criteria for the awarding of bonus points will be as defined by the judging committee to encourage cooperation between students from diverse backgrounds including different disciplines/ nationalities/ genders/ years/ faculties/ schools.	5% (Bonus item)

Judging Criteria

Final Round

MIMORY AWARDS

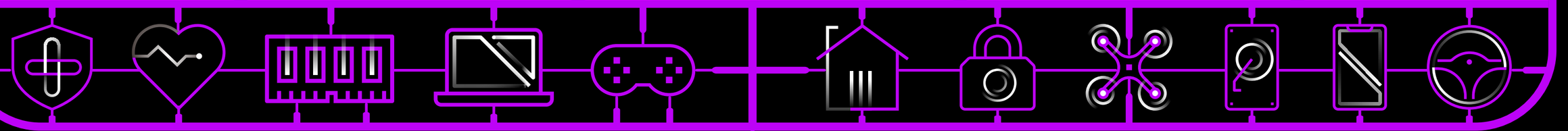
Item	Definition	%
Completion and quality	• Completeness of proposal and quality of presentation • The problem and target are clearly defined	10%
Data analysis	• Thoroughness of supporting evidence and data collection • Effective use of tools for data analysis (including AI tools and new technologies) • Usability	15%
Innovation	• The logic and correctness behind the formulation and selection of proposal • Creativity • Actual benefits and influence	15%
Feasibility & Difficulty	• Construction of feasibility model, verification of root cause, and analysis of variance	10%
Demonstration & Presentation	• Demonstration • Presentation	50%

Competition Rules

Competition Rules

MIMORY AWARDS

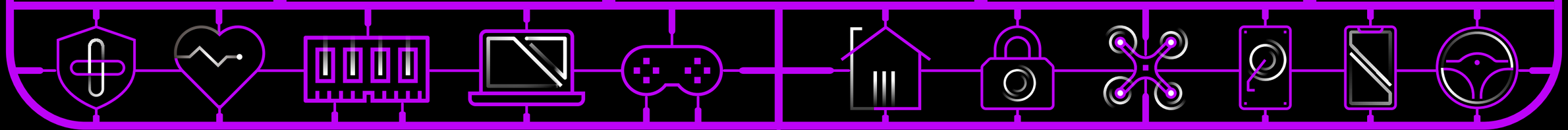
- By registering for the competition, you consent to provide your competition entry and personal contact details to the Organizer and Co-Organizers for the purpose of reviewing the entered project, and making of arrangements for the event.
- The project proposal may be a dissertation, research report, or class project report. Projects that have already finished in the top three of other international and national competitions, or in past Micron Mimory Awards before the registration deadline for this year's competition are not eligible.
- The principle of anonymous entries is to be followed. The contents and file names of all written information (including the Final presentation), photos, images, and audio-visual materials may not contain the school logo, or mention the name of the school, faculty, or supervisor. Points will be deducted for any violations. Disqualification may be recommended by the judges for serious breaches.



Competition Rules

MIMORY AWARDS

- In the event of any plagiarism, participant ineligibility, violation of the competition rules, or violation of the rights (including intellectual property rights) of the Micron Mimory Award's Organizer, administration, or other parties, the offending team may be disqualified at any time. If the team has already won an award, they will be required to return all prize money and trophies that they have collected.
- Patent rights belong to the competitor. The Organizer has the right of first refusal.
- The names and resumes of competitors will be recorded in the Micron Taiwan talent database. Award winners will receive preferential treatment in future interviews and recruitment.
- Teams agree to authorize the Organizer to take photos or video recordings during the event, or to ask teams to provide related photos or videos for the recording, promoting, and marketing of this event or related activities. The aforementioned photos or videos may also be published in any form. lations. Disqualification may be recommended by the judges for serious breaches.



Submission Format and Content

Please adhere to the following format while preparing the Proposal and Presentation. All of the contents must be in English.

Preliminary Proposal

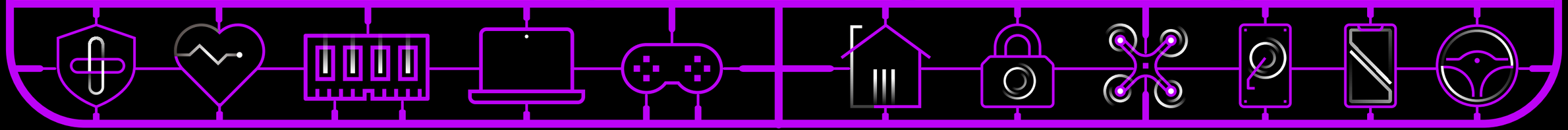
Must include one cover page (contents as described above) and the project contents. The “recommended” Chinese font is Microsoft JhengHei. The “recommended” English font is Arial. File size must not exceed 30MB. Please convert to PDF then submit by uploading the file to the competition website.

Proposal Coverage Page:

The coverage page must include the competition topic, competition category, Team ID (to be notified after eligibility review), as well as the names of the supervisor, team captain, and team members.

Project Content:

- Project Title
- Research background & motivation or benefits
- Introduction
- Experimental design
- Experimental results
- Project summary & Future work
- Reference



Final Presentation File

Once students receive confirmation that they have proceeded to the next round, they may adjust the presentation's structure, page count, and format without any restrictions.

Awards and Prize Money

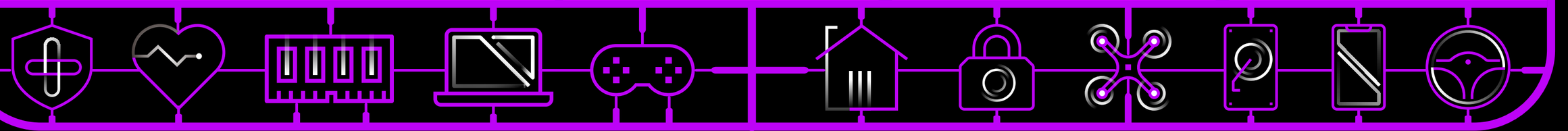
*The above bonus will be subject to deductions for income tax (20% for non-Taiwan residents; 10% for Taiwan residents), bank fees, etc., to arrive at the final amount received.

*The bonus will be paid in New Taiwan Dollars (NTD). The USD figures are for reference only; the actual USD value will depend on the exchange rate.

Award Name	Advanced Process Technology Development Category	Next-Generation Semiconductor Applied Materials Category	Device Design and Development Category	Semiconductor Production and Manufacturing Category
Gold Award	NT$ 800,000 (NT$200,000 / Approximately US$6450 per category)			
Silver Award	NT$ 400,000 (NT$100,000 / Approximately US$3225 per category)			
Bronze Award	NT$ 200,000 (NT$50,000 / Approximately US$1612 per category)			
People's Choice Award	NT$ 30,000 (Team with the most online votes / Approximately US$ 967)			

Early Bird Referrals

1. The referrer of any team that passes the eligibility review and was one of the **first 70 teams** to submit their proposal will receive an electronic gift coupon valued at NT$1,000 (up to NT$3,000 per person). If the referrer is an overseas national, the equivalent amount in USD will be provided as the incentive prize.
2. The referrer will only be eligible to receive the reward if their contact details and current country/region was included by the referred team in their registration form.
3. Team members may not also act as the referrer for their team.
4. There are no requirements for becoming a referrer. Please do nohesitate to refer teams to the competition!



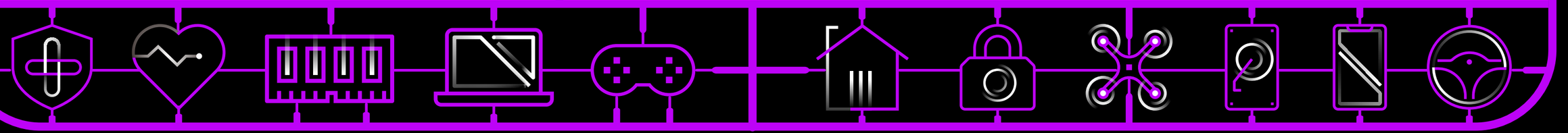
Travel Subsidy for Overseas Finalists

To encourage shortlisted teams from overseas to take part in the Finals in person, we will provide each attending student with a fixed amount of US$600 in travel subsidies.

Eligibility:

1. Definition of Overseas Teams: Any team not from the Taiwan region whose members are all currently enrolled in universities outside of Taiwan.
2. Overseas finalists that travel to Taiwan to take part in the Finals in person and are present throughout the entire program will receive a lump-sum of US$600 in subsidies (per attending student).

The Organizer may make adjustments as necessary regarding any matters not covered in these subsidy rules and reserves the right of final decision.



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