

MICRON MIMORY AWARDS

Si + Idea

**Micron Mimory Awards
Information Pack**

Organizer

**College of Semiconductor Research
National Tsinghua University
Taiwan**



Title Sponsorship by

Micron Technology, Inc.

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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 participants 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**

Competition and Judging Rules

Eligibility

1. 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.
2. Each team may have up to four members. Mixed teams of diverse backgrounds from different disciplines/nationalities/genders/years/faculties/universities are encouraged.
3. 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

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)
3. Device Design and Development Category (includes but is not limited to the following topics: Memory Component Circuit Design, Simulation Technology Development)
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

1. 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.
2. We will be hosting 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.
3. In the interests of fairness, industry mentors will only serve as consultants and will not be involved in the judging.

Event Timetable

The timetable will be as announced by the Organizer. The Organizer reserves the right to make adjustments to the dates. Experts from the industry and academia will be invited to serve on the judging committee for the preliminaries and as online judges (except those serving as team supervisors).

Competition Stages	Time	Description
Online Registration (Review of Eligibility)	From now until 2026/1/13 (Tue)	1) Registrations are to be conducted online. Please follow the online registration form and provide all necessary information including the competition category, team name (do not include school name, faculty, or personal information), team members (team captain and team members), contact details (contact address, contact number, mobile number, contact person), entry name in Chinese and English, supervisor, the name of the school and faculty in Chinese and English (please use the formal name for the school). If team information needs to be updated, please email tw_university@micron.com before 2026/1/13 (Tue). Revisions may only be made once. 2) If registration was successful, a Team ID will be generated for each team. Please use the Team ID for logging in and filling out information in the future. 3) Eligibility for the preliminary round will be reviewed by the Micron project team on a rolling basis. Teams may submit their preliminary proposal once they receive notice that they passed the review.
Preliminary Proposal Submission	Submission window is from passing of eligibility review to 23:59 on 2026/2/23 (Mon).	1) Submissions and updates: Please refer to the Proposal Submission Guidelines for the proposal format. Submissions can be uploaded and revised by logging into the competition website before 23:59 on 2026/2/23 (Mon). Each team may revise the contents of their proposal once. 2) Preliminary Proposal Naming Format: Team ID - Team Name (e.g. A01 - Micron Star)
Announcement of Finalists	Announced on 2026/3/18 (Wed)	The judges will discuss the preliminary written proposals then nominate 3 teams from each category, a total of 12 teams, to proceed to the Finals.
Finals/Award Ceremony	2026/4/29 (Wed)	1) The Finals and Award Ceremony will be held on the same day. The winning teams and the People's Choice award winner will also be announced. 2) Finals Format The Finals will be conducted through presentations and oral examinations. The Oral Examination may be conducted in Mandarin or

		English. 30 minutes is allotted to each team including 20 minutes for the presentation, and 10 minutes for questions from judges. 3) Judging Method: Judging is to be conducted in-person. The venue will be the Sheraton Hsinchu Hotel. The Finals results will be sealed after the competition with the rankings announced at the Award Ceremony on the day.
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Judging Criteria

Preliminary Round (each item scored from 1 – 10). Bonus points will be awarded for “Diversity” to encourage diversity and cooperation in each category.

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 the proposal ● Creativity ● Actual benefits and influence	35%
Feasibility & Difficulty	● Construction of feasibility model, verification of root cause, and analysis of variance	25%
Diversity	● Bonus points will be awarded by the judges to encourage cooperation among students from diverse backgrounds across different fields/nationalities/genders/years/faculties/universities.	5% (Bonus Item)

Final Round (each item scored from 1 – 10)

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 the 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

1. By registering for the competition, you consent to provide your competition entry and personal contact details to the Organizer and Co-Organizers for the purposes of reviewing the entered project and making arrangements for the event.
2. 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.
3. 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.
4. 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.
5. Patent rights belong to the participants. The Organizer has the right of first refusal.
6. The names and resumes of participants will be recorded in the Micron Taiwan talent database. Award winners will receive preferential treatment in future interviews and recruitment.
7. 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.

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 Cover Page:

The cover 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:

There is no page limit for project content but it must contain, at a minimum, the following items:

1. Project Title
2. Research background & motivation or benefits
3. Introduction
4. Experimental design
5. Experimental results
6. Project summary & Future work
7. 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

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 per category)			
Silver Award	NT\$400,000 (NT\$100,000 per category)			
Bronze Award	NT\$200,000 (NT\$50,000 per category)			
People's Choice Award	NT\$30,000 (Team with the most online votes)			

Unit: New Taiwan Dollar

* Prize Money Collection Information

According to the withholding tax rate standards of the Republic of China (Taiwan), if a prize winner is a foreign national who has resided in Taiwan for less than 183 days during the tax year (non-resident), 20% of the prize payment will be withheld as income tax. For those who have resided in Taiwan for 183 days or more (resident), the withholding tax rate is the same as for local citizens, and 10% of the prize payment will be withheld. The organizing unit of this competition will provide after-tax prize money to the winners.



Early Bird Referrals

Event Rules:

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 not hesitate 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.

Competition website
www.micron-mimoryawards.org.tw

