INNOVATE THE FUTURE TO SAVE LIVES

Join us to make a difference!

Interested applicants or teams are invited to submit their application forms online by 16 June 2024. The application must include your team's proposal for prototype development. This proposal, created using a PowerPoint Presentation, should address:

(a) Your project concept or idea and why you believe it will succeed.

(b) The methodology outlining how your team plans to design, test, and implement the prototype, including a timeframe aligned with the competition schedule.

The Selection Committee will review your proposal and make a section.

FOR MORE INFORMATION

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ASEAN-MRC TECHNOLOGY COMPETITION 2024

Tackling flash floods using AI and machine learning

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ASEAN-MRC Technology Competition

University students from the 10 ASEAN countries are invited to participate in this home-grown technology competition and to showcase their talent, creativity and passion for making a positive difference.

The teams will develop prototypes—using AI and machine learning—that are capable of detecting and sending warnings about flash floods to vulnerable communities in the region.

Be part of the solution to make a difference

Prizes

Three winning teams will receive prizes of **USD 5,000** each, and two runners-up will also be selected for **USD 2,000** each. Plus other opportunities to demostrate their work.

Judging criteria

Prototypes are judged against the following criteria:

Cost effectiveness (25%)
The sensor can be manufactured locally at an affordable cost.

Innovation (25%)
The sensor is produced from a new and innovative concept, or further enhances existing sensor technologies.

Durability (25%)
The sensor is designed in such a way that it can withstand harsh weather conditions.

Accuracy (25%)
The sensor shows evidence of consistent test results.

Technical requirements

1. Competitors are to develop sensors that are capable of detecting and sending warnings about flash floods to vulnerable communities in the region. These sensors are normally installed within their own stations or placed outdoors. Competing teams need to design equipment that is appropriate for its terrain, location, weather, and functions.

2. The sensors will be deployed at a real-world testing site and they must be able to collect and send real-time data from the station/location to a server.

3. Ideas from the Internet of Things (IoT) are encouraged.

Who is eligible?

- The competition is merit-based and open to all undergraduate and graduate students from ASEAN universities.
- Students need to form a team to join the competition. A team can consist of two members and above and ideally from the same university.
- At least one of the members must be female.
- Students may be from any faculty or field of study.