



ที่ ศธ 0604/ 45

สำนักนโยบายและแผนการอาชีวศึกษา
สำนักงานคณะกรรมการการอาชีวศึกษา
กระทรวงศึกษาธิการ กทม. 10300

๗ กุมภาพันธ์ 2563

เรื่อง การแข่งขัน Young Inventors Challenge (YIC) 2020

เรียน ผู้อำนวยการสถาบันการอาชีวศึกษาและสถานศึกษาทุกแห่ง

สิ่งที่ส่งมาด้วย รายละเอียดการแข่งขัน Young Inventors Challenge (YIC) 2020 จำนวน 1 ชุด

ด้วยสมาคมวิทยาศาสตร์ เทคโนโลยีและนวัตกรรมมาเลเซีย (Association of Science, Technology and Innovation-ASTI) จะจัดการแข่งขัน Young inventors Challenge (YIC) 2020 ซึ่งเป็นการแข่งขันที่มีวัตถุประสงค์เพื่อส่งเสริมความรู้ความสนใจของเยาวชนในสาขาวิทยาศาสตร์และนวัตกรรม โดยในปีนี้ ASTI ได้กำหนดหัวข้อการแข่งขันฯ คือเป้าหมายการพัฒนาที่ยั่งยืน (Sustainable Development Goals-SDG) สำหรับผู้ที่สนใจสามารถศึกษารายละเอียดเพิ่มเติมได้ที่ www.asti.org.my และสมัครไปยังผู้จัด ได้โดยตรง ภายในวันที่ 29 กุมภาพันธ์ 2563 รายละเอียดตามสิ่งที่ส่งมาด้วย

สำนักนโยบายและแผนการอาชีวศึกษาจึงขอให้สถาบันการอาชีวศึกษาและสถานศึกษา ทุกแห่งประชาสัมพันธ์การแข่งขันดังกล่าวข้างต้น ให้นักเรียนนักศึกษาในสังกัดทราบต่อไป

จึงเรียนมาเพื่อทราบและพิจารณาดำเนินการในส่วนที่เกี่ยวข้องต่อไป

ขอแสดงความนับถือ

(นางสุริพร สังข์จ้ออน)

นักวิเคราะห์นโยบายและแผนชำนาญการ รักษาการแทน

ผู้อำนวยการสำนักนโยบายและแผนการอาชีวศึกษา

เรียนเสนอ ผอ.สถาบันการอาชีวศึกษาภาคใต้ 3

- เพื่อโปรดทราบ

- เพื่อโปรดพิจารณา/สั่งการ

นายณัฐพงษ์ บุญนาค

ผอ.สถาบันการอาชีวศึกษาภาคใต้ 3

11 ก.พ. 63

กลุ่มยุทธศาสตร์การอาชีวศึกษาต่างประเทศและวิเทศสัมพันธ์

โทร. 0 2026 5555 ต่อ 3000

โทรสาร 0 2280 2945

11 ก.พ. 2563



Pertubuhan Sains, Teknologi dan Inovasi
(PPM-012-10-25102012)
No.16A, Jalan 2/12, Sea Park, 46300 Petaling Jaya, Selangor
Tel: 03-78778571/03-78655557
Email: yic2510@gmail.com Website: www.asti.org.my



14 JAN 2020

6 January 2020

H.E. NARONG SASITORN
AMBASSADOR
ROYAL THAI EMBASSY
206 JALAN AMPANG,
50450 KUALA LUMPUR

Your Excellency,

RE: INVITATION TO PARTICIPATE IN YOUNG INVENTORS CHALLENGE (YIC) 2020

It is with great pleasure, on behalf of Association of Science, Technology and Innovation (ASTI); we would like to invite students from your country to take part in Young Inventors Challenge 2020. The challenge is team based and the team members can come from more than 1 school. The prestigious event is based on proposals received, and the shortlisted best proposals will be chosen by more than 100 expert judges. These teams will be invited to participate in the grand finale.

The Association of Science, Technology and Innovation (ASTI) is a non-governmental and non-profit oriented organization (NGO) working towards empowering young childrens' interest in science through the act of doing where learning is achieved from discovering scientific principles themselves. In order to achieve this vision we have experimented with various projects and have successfully gained traction on programmes such as the Science Fair for Young Children (SFYC), **Young Inventors Challenge (YIC)**, Creative and Critical Thinking Camp (CCTC), ASTI Leap Challenge (ALC), "On the Wings of Fire Series" and ASTI outreach programmes. Please refer to our website www.asti.org.my for more information regarding our projects.

In particular, YIC requires teams of up to 3-5 members to put their minds together and come up with an invention. The purpose of the programme is to build and encourage the creative and inventive capability of young people. We started this programme in 2013 as a pilot where 12 teams participated from 12 schools and the response have been remarkable ever since - we have been growing almost exponentially with over 150 shortlisted teams participating every year.

YIC teams are then provided training using videos and Facebook live from our expert trainers and innovators. We see YIC as the first step for budding inventors to go on and be inventors and innovators of the future. Hence former YIC participants have won many other awards in other international arena. Last year we had applicants from over 10 countries including China, Singapore, Indonesia, Philippines and many more.

Among the many achievements in running YIC for the past seven consecutive years are:

- The phenomenal participation growth includes international schools from the Philippines, Thailand, Indonesia, Singapore, Brunei, Vietnam, Timor Leste and China.
- In 2017, 2018 and 2019, YIC received international recognition from the Malaysian Ministry of Education.
- YIC continually reaches out to participants from more countries.
- YIC was shortlisted from over 1509 educational educators from 39 countries by QS rating agency for the Reimagine Education Award.

This year, YIC 2020 will be our 8th year and we would like to expand the competition even wider to invite more teams from various countries. The theme for this year is "**SUSTAINABLE DEVELOPMENT GOALS (SDGs)**" and the guidelines for participation are as shown below:



Pertubuhan Sains, Teknologi dan Inovasi
(PPM-012-10-25102012)
No.16A, Jalan 21/12, Sea Park, 46300 Petaling Jaya, Selangor
Tel: 03-78778571/03-78655557
Email: yic2510@gmail.com Website: www.asti.org.my



Step 1: Form a Team of 4 or 5 people

Step 2: Email (yic2510@gmail.com) /Fax (03-7872 9551) your team's details with the following information shown below by 29 February 2020

SCHOOL NAME & STATE:		
TEAM NAME:		
MENTOR/TEACHER NAME:		
MENTOR/TEACHER CONTACT NUMBER:		
MENTOR/TEACHER EMAIL ID:		
NO	PARTICIPANT'S NAME	IC NUMBER/PASSPORT NUMBER
1		
2		
3		
4		
5		

Step 3: ASTI emails out Young Inventors Challenge Students Manual and Proposal Writing Online Video

Step 4: Develop the invention proposal following the format given in the Students Manual and Proposal Writing Online Video

Step 5: Submit invention proposal to ASTI by 28 March 2020

Step 6: Shortlisted teams will be notified via email by 8 May 2020 and required to pay participation fee of USD 100 (RM 400) per team within 2 weeks of the notification.
(Booth, Food, Certificates and Testimonial will be provided for all participants)

Step 7: Shortlisted teams will be guided with Online Training and Facebook Live Training from May - June 2020

Step 8: 3 months to develop inventions

Step 9: Invention prototypes will be showcased at the Grand Finale in September 2020

Please refer to attached Young Inventors Challenge Flyers for more information. On behalf of ASTI, we are hoping that you could disseminate this information to your country's Ministry of Education and we look forward the participation from your country.

Yours Sincerely,

Yours sincerely,

Mr. Anandan Shanmugam
Project Director
YIC 2020

Dr. Mohamed Yunus bin Mohamed Yasin
President
ASTI



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(PPM-012-10-25102012)
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13 January 2020

Principals,

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Please refer to the Young Inventors Challenge Flyers for more information. If you are interested in taking part, reply to us with the details of teams and participants as per table above in Step 2 by 29 February 2020. Your school can submit as many proposals as you like (but 1 team, 1 proposal only).

On behalf of ASTI, we are hoping that you could disseminate this information to your teachers and we look forward to your positive response and participations.

Yours Sincerely,



Mr. Anandan Shanmugam
Project Director
YIC 2020

Yours sincerely,



Dr. Mohamed Yunus bin Mohamed Yasin
President
ASTI

● THE COMPETITION ●

The **Young Inventors Challenge 2020** is our 8th Invention/Innovation competition which aims to encourage secondary school students aged 13-17 to cooperate as a team (4-5 students) to find innovative solutions to current-day problems.

Additionally there are 3 competitions, a written report competition, a short video competition and also an entrepreneurs business plan competition if there are any interest.

● THE ORGANIZER ●

Association of Science, Technology and Innovation (ASTI) is a non-governmental organization (NGO) and also a non-profit oriented organization working towards empowering young children through various projects such as *Science Fair for Young Children (SFYC)*, *Young Inventors Challenge (YIC)*, *Creative and Critical Thinking Camp (CCTC)*, *ASTI Leap Challenge (ALC)*, *Wings of Fire Series* and *ASTI outreach programmes*.

● THE OBJECTIVE ●

- To develop future inventors/innovators.
- To give an opportunity to young and future inventors/innovators to develop and showcase their inventions/innovations.
- To help young inventors/innovators to experience the inventive cycle, from conceptualisation to product/prototype.
- To introduce the idea of "using inventions/innovations as a tool to make a positive change in society".
- To give opportunities to young people who are inventive to promote their ideas to the outside world.

● WHO CAN PARTICIPATE? ●

- Secondary school students aged between 13 and 17 or Form 1 to 5.
- A team of 4 - 5 young people.
- Teams made up of different cultural background (*Highly Encouraged*)
- Able to write a proposal and do presentation in English Language.

● THE AWARDS ●

- 3 Best Proposals will receive RM 500, RM 300 and RM 200 respectively
- 1 X Platinum Award - RM 2500 with Certificates, medals and Challenge Trophy
- 2 X Gold Awards - RM 2000 each with Certificates and medals
- 7 X Silver Awards - RM 1000 each with Certificates and medals
- 10 X Bronze Awards - RM 500 each with Certificates and medals
- All participants will be awarded a Certificate of Participation

Platinum Awards Winner (2019)

School Name : Philippine Science High School-Soccsksargen Region Campus, Philippines
 Team Name : Paraiso
 Team Invention Title : Autonomous Radiation Monitoring and Data-Logging Aquatic Vehicle (Armaday)



Gold Awards Winners (2019)

School Name : SMK Bancar Utama 3, SMJK Katholik, SMK Darussara Jaya, Wesley Methodist School Kuala Lumpur (International), Arrows Resource Centre, Malaysia
 Team Name : Nighthawk
 Team Invention Title : Chef De- Bot



School Name : SMA Negeri 1 Kedungpring, Indonesia

Team Name : Santi Basuki

Team Invention Title : Biofoam Engkong (biodegradable foam from Water Hyacinth as Main Ingredients)

● WHAT THE TEAMS HAVE TO DO? ●

The United Nation's Sustainable Development Goals (SDGs)* are the blueprint to achieve a better and more sustainable future for all. They address the global challenges we face, including those related to poverty, inequality, climate, environmental degradation, prosperity, peace and justice. There are 17 SDGs.

This year's YIC theme is; Invention to address issues discussed in Sustainable Development Goals (SDGs). You are required to invent a product and/ or process that is able to provide resolution in some form and have an impact on Sustainable Development Goals (SDGs). Participants are required to innovate and produce a working prototype and/ or a working scaled model. A write-up is also required with the aim to commercialize or to put in practice the invention.

• HOW TO PARTICIPATE? •

Form a Team of 4 or 5 people

Email (yic2510@gmail.com) / Fax (603-7872 9551) your team's details by 29 February 2020

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Invention prototypes will be showcased at the Grand Finale in September 2020



For further details, kindly contact:

Ms. Vanitha Vasu

Association of Science, Technology and Innovation (ASTI)

No. 16A, Jalan 21/12, Sea Park, 46300 Petaling Jaya, Selangor Darul Ehsan

Tel: 03-7877 8571 / 03-7865 5557 Fax: 03-7872 9551 Email: yic2510@gmail.com

www.asti.org.my

Young Inventors Challenge 2020



Theme:

"Sustainable Development Goals (SDGs)"

Scan/Me to REGISTER

