

IES PRESTIGIOUS ENGINEERING ACHIEVEMENT AWARDS / ASEAN OUTSTANDING ENGINEERING ACHIEVEMENT AWARDS 2018

CALL FOR NOMINATIONS

The IES Prestigious Engineering Achievement Awards are created to recognize the outstanding achievements of the engineers in Singapore. The awards are given to an organisation or persons responsible for an outstanding engineering project.

The award presentation ceremony for the IES Prestigious Engineering Achievement Award 2018 will be presented at a major IES event this year. The number of awards per category will be based on their merit.

Previous winners for 2017 include:

- Development of apparatus and method to assess endothelial function to better manage patients with diabetes
School of Engineering, Nanyang Polytechnic
- EscoGlove: A Soft and Wearable Robotic Glove for Assistance of Hand Impaired Patients during Activities of Daily Living and Rehabilitation
Department of Biomedical Engineering, National University of Singapore
- High Power Mid-Infrared Fiber Laser
SIMTech
- BCA SkyLab The World's First High-Rise Rotatable Laboratory for the Tropics
BCA SkyLab
- Littoral Mission Vessel
Defence Science and Technology Agency
- Mitigation of Pollution at Kandy Lake and Mid-Canal, Sri Lanka
Nanyang Environment and Water Research Institute, Nanyang Technological University
- Singapore Sports Hub

ARUP

- Island Air Defence - Networked Air Defence Capabilities Through Technology
Defence Science and Technology
- The av-Guardian - Guardian for renal failure patients' lifeline; Plug-&-Play ready for dialysis of the future
Advent Access Pte Ltd
- Florisensors- A novel flower based chemiresistive gas sensors
National University of Singapore
- Soft robotics technology for application on bedside ankle rehabilitation
National University of Singapore
- Green and Sustainable Buildings: For Our Future
School of Engineering, Temasek Polytechnic

The different categories of the awards are as follows:

(A) Applied Research and Development

- Research and development projects before commercialization

(B) Engineering Project

- Engineering projects which have been successfully implemented

(C) Technology Innovation

- Technology or product invention which has been successfully commercialized

(D) Student Awards - '*IES Young Creators' Award*'

- Innovative ideas on applications of science

Criteria for the Awards

In making the selection for the above awards, the following criteria will be given special consideration:

(A) Applied Research and Development

- i. Advancement of knowledge with practical applications of science and has potential beneficial impact to society.
- ii. Contribution to general public, society & nation building with considerations of the commercial and social impact
- iii. Technological innovation with Originality and Creativity
- iv. Only one nomination or application per category for nominators and applicants
- v. The research work shall have been completed substantially

(B) Engineering Project

- i. Innovative engineering practices and environmental sustainability
- ii. Contribution to general public, society & nation with considerations of the commercial and social impact delivered
- iii. Only one nomination or application per category for nominators and applicants
- iv. Engineering Project must be current and must be completed within the last 3 years.
- v. Project must represent a genuinely new approach or a significantly improved solution over an existing practice

(C) Technology Innovation

- i. Technological breakthrough, innovation and invention (Originality and Creativity)
- ii. Contribution to general public, society & nation with considerations of the commercial and social impact delivered
- iii. Only one nomination or application per category for nominators and applicants
- iv. The technology must have made noteworthy contributions surpassing previous or current solutions.
- v. The technology must have the potential to serve as an inspiration or model for others.

(D) Student Awards - 'IES Young Creators' Award'

- i. Open to tertiary level including polytechnics and universities.
- ii. Project must be innovative and creative.
- iii. Project must have achieved high performance in efficiency.
- iv. Project must have high usability, inventiveness and have considered user experience.

The top winners of the IES Prestigious Engineering Achievement Awards 2018 will be nominated for the ASEAN Outstanding Engineering Achievement Awards 2018 which will be presented during the 36th Conference of ASEAN Federation of Engineering Organisations (CAFEO 36), to be held in November 2018 in Singapore.

All submissions should include the following details:

1. Covering page with Name of Project, and the FULL names of the team members (including full contact details of team leader such as email address and mobile number). Please note that there should be no amendments once the team members' names are submitted.
2. The executive summary of the project, including significant engineering accomplishment, the impact of engineering contributions

and fulfillment of the criteria listed in the different categories (described in 2 pages of A4 size paper)

3. Details including photographs and relevant drawings of the project placed as addendum.

Please submit your entry online:

<http://www.emailmeform.com/builder/form/7806M708pWVOeIUwdes0ybQ34>

latest by Monday, 1 April 2018.

If you have queries, you may contact Siew Keow at Email: **siewkeow@iesnet.org.sg**, DID 64611221.

Chairman
wards Committee
The Institution of Engineers, Singapore