

IES PRESTIGIOUS ENGINEERING ACHIEVEMENT AWARDS / ASEAN OUTSTANDING ENGINEERING ACHIEVEMENT AWARDS 2017

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 2016 will be presented during the World Engineers Summit 2017 Conference Dinner on 20 July 2017. The number of awards per category will be based on their merit.

Previous winners for 2016 include:

- A Biophillic Waterway@Punggol- Innovative Floating Wetlands and Freshwater-Tolerant Mangroves
Housing & Development Board
- Highly Flexible and Wearable Sensors for Real-Time Healthcare Monitoring Applications
National University of Singapore
- Innovative LED-based communications and privacy windows for Smart Nation living
A*STAR, Institute of Materials Research and Engineering
- Rapid Diagnosis Of SEPSIS Using A Plasmonic Sensor Based Point-Of-Care System
Temasek Polytechnic
A*STAR, Institute of Materials Research and Engineering (IMRE) and Tan Tock Seng Hospital
- Galassia - NUS first nanosatellite
National University of Singapore
- Next Generation Data Centre
Defence Science and Technology Agency

- Anti-Reflective Glass - Engineering Large Surfaces with Nano Solutions
Wangi Industrial & Institute of Materials Research and Engineering (IMRE)
- Large-scale Command Post Systems Integration for Overseas Military Exercise - Forging Sabre
Defence Science and Technology Agency and DSO National Laboratories
- Seeing is believing: from Microscope to Nanoscope
National University of Singapore (NUS)
Singapore University of Technology and Design (SUTD)
- The Future of Auditing: Early Detection & Prevention of Significant Trading Irregularities
A*STAR, Institute for Infocomm Research and Group Audit, DBS Bank Ltd
- Design & Development of Digital In-Vitro Fertilization (IVF) Device for Oocyte Retrieval
Department of Electrical and Computer Engineering,
National University of Singapore
- Smart White Cane with Obstacle and Wet Surface Detection Functionalities
Engineering Science Programme, Faculty of Engineering
National University of Singapore

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 2017 will be nominated for the ASEAN Outstanding Engineering Achievement Awards 2017 which will be presented during the 35th Conference of ASEAN Federation of Engineering Organisations (CAFEO 35), to be held in November 2017 in Thailand.

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 latest by Monday, 6 March 2017:

**Chairman, Awards Committee
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