

Dear SAE Members & Academy Professionals,

SAE NIS Efficycle 2018 (Season-9) main event is scheduled from 9th to 13th October, 2018 at Lovely Professional University (LPU), Jalandhar.

Efficycle competition is a platform for automotive engineers to learn and share knowledge about automotive design, manufacturing and different other automotive technologies with the aim of promoting eco-friendly mobility solutions in India.

As a new initiative in Season-9, Efficycle Technical Committee is organizing the **Advance Technology Expo** during main event. All innovators are invited to participate in this expo for showcasing their work in field of advance automotive technologies. Further details can be found in the attached information document.

Interested innovators can send their details to the contacts given in the information document.



17-Sept-2018

SAE NIS EFFI-CYCLE 2018

Advance Technology Expo



About EFFI-CYCLE

- *EFFI-CYCLE is an initiative of SAEINDIA Northern Section with the objective of providing an opportunity for the engineering students, to explore the 'Environment Friendly and Economical' solutions for the day-to-day mobility needs of people.*
- *The event tasks undergraduate engineering students to conceive design and fabricate a prototype of a three wheel configuration vehicle, capable of seating two passengers and powered by human and-electric hybrid power.*
- *This unique initiative of SAE NIS, to incubate the thought process of 'environment consciousness' is an impetus for the students and the auto industry alike.*
- *Effi-cylce has received immense support from the industry, with patrons such as Maruti Suzuki, ICAT, IOCL to name a few.*

Idea Behind Advance Technology Expo

- *Technology has disrupted the automotive industry having long lasting, profound, complex relationship with the aspects of manufacturing, safety and the environment.*
- *Efficycle being one of the front runner of promoting eco-friendly mobility, this 3 wheeled configuration vehicle also need to align with these advancements and learn from it.*
- *For this, we came with the idea of this Advance Technology Expo, which will be organized at the main event site. The objective of this expo is to create a platform for technology enthusiasts to showcase and share their knowledge.*
- *This platform would also enable us to collaborate under one roof, working for the common good and better use of technology in the mobility sector.*

Invitation to Innovators

- *SAE NIS and Efficycle Organizing Committee invites all innovators to showcase their innovative technologies/ products which are latest in the field of mobility and has a major scope in future.*
- *Individual as well as a team of innovators (2-5 persons) may be present for demonstrations of their technologies/ products.*
- *The exposition will be held at Efficycle 2018 main event site at Lovely Professional University, Jalandhar from 11th - 13th October, 2018.*
- *All innovators are requested to contact Efficycle Technical Committee for participation in expo along with an abstract to efficycle.technical@saenis.org by 25th September, 2018.*
- *An exposition area will be allocated at the event site for technology/ product presentation.*

List of Technologies

- Work in following fields (including but not limited to) may be presented during expo.
 - Powertrain technologies (Solar & other renewable energy, Batteries, Fuel Cells, Energy Efficient Drives, EV, Hybrid and Mild Hybrid applications etc.)
 - Use of IoT (Internet of Things) and connected vehicles
 - Artificial Intelligence, Semi-Autonomous and Autonomous vehicle Technologies
 - Telematics Applications (e.g. collision avoidance, parking management systems, emergency vehicle notifications and remote monitoring & diagnostics)
 - Human-machine interface, advanced driver assistance systems (ADAS)
 - Usage of Light Weight Materials
 - Passenger Safety Technologies
 - Technologies enhancing passenger comfort
 - Work in any other area relevant to advancement in mobility field.

Eligibility & Procedure

- **Eligibility:** The group of engineering graduate and post-graduate students, research scholars, professionals working in start-ups and organizations from automotive industry belonging to all parts of country are eligible to participate.
- **Submission of Abstract:** A document with the following information should be sent to efficycle.technical@saenis.org before 25th September, 2018:
 - Details of work with current status, scope and applications
 - Date/ Timeline of completion of work
 - Details of product and technology.
 - Photographs, Sketch, Diagrams etc
 - Name of Innovators, brief profile, Contact Details, Location
 - Details of earlier presentations, national/ international recognitions (if any)
- The abstracts will be reviewed by the Efficycle Technical Committee and the invitation will be sent to selected innovators for joining the exposition.

Benefits to Innovators

- Interaction with more than 1000+ participants
- Interaction with different experts from automotive industry who will participate as judge in competition.
- Interaction with stalwarts of automotive industry (e.g. SAE, ICAT, Maruti Suzuki, Indian Oil and other OEMs & Component makers)
- Exposure to media
- Recognition at national level
- Long term association with SAE
- Chances to participate in Efficycle in different roles (team mentors, judges, sponsor etc)
- Exchange of knowledge and technological ideas with judges and participants

Contact Details:

- Following officials may be contact for any queries related to expo:
 - **Mr. Utkarsh Tyagi**
Coordinator- Advance Technology Expo
Mob: 9582990687
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 - **Mr. Jitendra Singh Gaur**
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