

Concept Note on “Student Pavilion” in AERO INDIA - 2019

Aero India-2019, the biennial air show-cum-defence exhibition organised by the Ministry of Defence (MoD) is scheduled to be held from 20 - 24th February 2019 at Air Force Station, Yelahanka, Bengaluru. This event is being co-hosted by Ministry of Civil Aviation. The five day event will be attended by a large number of visitors including exhibitors from the World’s leading industries in the field of military and civil aviation. Aero India-2019, for the first time, envisages to set up a “Student Pavilion” to showcase the projects of students on aerospace related activities.

During this five days mega event, ‘Technology Day’ is being observed on 22nd February 2019, wherein interalia, students who are involved in the aerospace sector, both civil and defence, will be given an opportunity to showcase their projects. The selected projects on aerospace related activities would be displayed. As a part of this exercise, students from Universities / Institutions would be invited to submit their projects. These projects would be evaluated by an appropriate body to ensure selection of exciting and technically challenging projects for the event. This is also in line with the initiatives such as Make in India, Digital India & Startup India.

In this background, Aero India Steering Committee has constituted a “Student Committee” under the chairmanship of Dr. N Saravana Kumar, Joint Secretary, ICC, MHRD and with representatives from Indian Air Force, P&C, DPO ICE-1, and HAL. This Committee has the mandate to shortlist the potential proposals in the area of aerospace and allied sectors. The selected proposals will be displayed in Aero

India-2019 exhibition. To assist in shortlisting the proposals, an Experts Committee has been constituted.

In keeping with the theme of the conference, students all over India are invited to present products / concepts on the **Application of Aerospace Technologies for the Betterment of the Billion lives (AABB)**. All the selected entries will be exhibited at the “Student Pavilion” at Aero India 2019, which will be a great opportunity for global exposure and winning awards. A general notice (attached) is being issued to all the Higher Educational Institutions, requesting for proposals from the students especially from such Institutions which have Aerospace Engineering department. The proposals would be received in two stages - Concept Note and Detailed Project Report , as per the timelines mentioned below.

The following **Time-lines** would be followed.

1. Issuing Invite Notice from MHRD asking for Concept Note on the proposed project - 12.12.2018
2. Receiving Concept Note from students - 07.01.2019
3. Scrutiny of Concept Note and Shortlisting of proposals - 14.01.2019
4. Receiving Detailed Project Report from shortlisted candidates - 24.01.2019
5. Announcement of finally selected Projects - 26.01.2019
6. Display of selected projects in Aero India 2019 - 20.02.19 to 24.02.19
7. Awards to selected projects in the Valedictory function - 24.02.19

Aero India 2019

Application of Aerospace Technologies for the Betterment of the Billion lives **(AABB)**

*Invitation for students to participate and exhibit for
Great Global Exposure and to win awards*

Ministry of Human Resource Development, Ministry of Defence and Ministry of Civil Aviation are proud to announce a student competition to exhibit products / concepts / innovative ideas on aerospace technologies at **Aero India 2019**, scheduled to be held in Bengaluru during February 20-24, 2018. In keeping with the theme of the conference / show, students from all over India are invited to present products / concepts on the **Application of Aerospace Technologies for the Betterment of the Billion lives (AABB)**. All the finally selected entries will be exhibited at the “**Student Pavilion**” at **Aero India 2019**. It is a great opportunity to the students for global exposure and also to win awards. Proposals can cover (a) futuristic research (b) exhibition of new emerging technologies in form of prototypes / models (c) demonstration of innovative applications / products of existing & proven technologies.

Team size: Maximum upto 4 (Team leader + 3 Team members)

The team would be assisted with boarding, lodging, travel and local transport and local support in the display of the projects during the Aero India program.

Aerospace Technologies (Suggestive): Avionics, Advanced Structures, Advanced Materials, Engines & Fuels, Propulsion Systems, Power Sources, Mathematical & Simulation models, Decision Support Systems, Command & Control Systems, Autonomous Systems, Surveillance, Stealth Technologies, Cyber Security, Cyber Physical Systems, etc

Aerospace Application Areas (Suggestive): Drones/UAVs; Mini/Micro Satellites; Aerostats/Balloons; etc

Initial Selection procedure: Participants need to submit a concept paper (may be an extended abstract of **maximum 2 pages**). The abstract should consists of :

1. Mission/problem statement
2. Suggested Solution /methodology and Current status of technology/solution
3. Innovation in design or application/product/solution.
4. Related IPR and publication(s) (if any)
5. Roadmap for realization from concept to Product.
6. Collaboration with startups or incubation (if applicable).

Screening of Concept papers:

Concept papers will be screened and short listed by an expert committee. The shortlisted proposals would be asked to submit Detailed Project Report.

The proposals should be forwarded through the Institute / faculty member in which the students are studying.

The proposals or any clarification in this regard should be addressed to **aero2019students@ae.iitm.ac.in**

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