

Welcome to the site of the Student Aerospace Challenge

The 19th exercise ended on 5 June with the Aerospace Challenge Day at the Air and Space Museum in Paris Le Bourget.

Results for the nineteenth exercise

Of the thirty-seven teams registered for the nineteenth exercise of the Student Aerospace Challenge, twenty-one teams, representing 89 students, submitted their final report. This high number of teams is a record for the Challenge. Following evaluation by the Steering Committee of the Challenge, composed of partners and experts, the list of winning teams is as follows:

- SPHERE (Université Libre de Bruxelles - Brussels, Belgium) received **ESA Grand Prix** for its work on the preliminary design of an attitude control system,
- Orbit WUT (Warsaw University of Technology - Warsaw, Poland) was awarded by **ArianeGroup Prize** for its work on the preliminary design of an attitude control system,
- Astro-Spaceship (ISAE-Supaéro - Toulouse, France) received **Dassault Aviation Prize** for the design of its OSIRIS shuttle, able to perform different types of mission in Low Earth Orbit,
- PoliTOrbital - Medical Aspects (Politecnico di Torino - Turin, Italy) was awarded by the **Communication Prize**, sponsored by ACE, for the emphasizing of work related to the design of a lightweight low power system for sleep monitoring in orbit.

In addition, during the Aerospace Challenge Day, ASTRA Team (Aristotle University of Thessaloniki - Thessaloniki, Greece) received the **Aeros**

pace Challenge Day's Special Prize

, sponsored by Air and Space Museum, for the best presentation related to its work leading to the proposal for a regulation devoted to suborbital flights at altitudes between 21 and 100 km.

[2023-2024 booklet](#)



Challenge News

02/07/2024

Results for the eighteenth exercise

Among the 28 registered teams for the eighteenth exercise of the Student Aerospace Challenge, 16 teams returned their report. Evaluation by the Steering Committee of the Challenge, composed of partners and experts leads to the following prize list:

- SARM (Universidad Politécnica de Madrid - Madrid, Spain) received **ESA Grand Prix** for its Phase-0 design of an autonomous and reusable space module,
- TUKERS (Technical University of Kosice - Kosice, Slovakia) was awarded by the **ArianeGroup Prize** for its work on active heatshield cooling solutions,
- OrbitOut (Ecole Polytechnique Fédérale de Lausanne - Lausanne, Switzerland) received **Dassault Aviation Prize** for its study related to CIRCE, a modular training approach to navigate through space,
- PoliOrbital - Medical Aspects (Politecnico di Torino - Turin, Italy) was awarded by the **Communication Prize**, sponsored by ACE, for the emphasizing of work related to AI-aided wearable device for health monitoring during a low orbital flight.

In addition, during the Suborbital Day, UPogee (University of Patras - Patras, Greece) received the **Suborbital Day's Special Prize**, sponsored by Air and Space Museum, for the best presentation related to its work on the preliminary design approach of a manned LEO spaceplane.

13/06/2023

Results for the seventeenth exercise

Among the 19 registered teams for the seventeenth exercise of the Student Aerospace Challenge, 14 teams returned their report. Evaluation by the Steering Committee of the Challenge, composed of partners and experts leads to the following prize list:

- SALTO (Politecnico di Torino - Turin, Italy) received **ESA Grand Prix** for its study related to radiation protection,
- InTOstellar (Politecnico di Torino - Turin, Italy) was awarded by the **ArianeGroup Prize** for its work to design reusable propulsion system for green suborbital flights,
- SpaceTOurists (Politecnico di Torino - Turin, Italy) received **Dassault Aviation Prize** for its study related to sizing and aerodynamics analysis of a wing-body suborbital vehicle,
- Space Doctors (Medical University & Nikola Vaptsarov Naval Academy - Varna, Bulgaria) was awarded by the **Communication Prize**, sponsored by ACE, for the emphasizing of work related to a small medical robot.

In addition, during the Suborbital Day, MISS (Université Libre de Bruxelles - Brussels, Belgium) received the **Suborbital Day's Special Prize**, sponsored by Air and Space Museum, for the best presentation related to its work on the design of a suborbital health monitoring platform.