



CALL FOR PROPOSAL

Dutch CanSat Competition 2019-2020





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Have you ever dreamed of becoming an astronaut, a rocket scientist or a space engineer? Now is your chance! In the CanSat competition, you can lead your own space mission - with a satellite the size of a soft drinks can. Together with a group of fellow students, you compete against teams from all over the country. Submit your proposal to be part of the Dutch CanSat Competition 2019-2020!

ESERO NL invites secondary school students from 4th to 6th grade HAVO and VWO to enter the Dutch CanSat Competition 2019-2020. The deadline for entries is **3 p.m. on 10 October 2019**.

CanSats are small satellites that contain the same essential subsystems as a real satellite, such as power and communications. But CanSats are different - they fit into a 330ml soft drinks can! CanSats do not go into space, but are launched with a rocket and then released at an altitude of about 1 kilometer. CanSats have to perform two missions on their way back to the ground, and land safely.

The primary mission is the same for all participating teams: to measure the air temperature and air pressure on their return journey to Earth. The data must be transmitted by radio to the team's ground station at least once every second during the flight.

The secondary mission is determined by each team itself. A team could for example choose to measure a more advanced parameter, such as acceleration speed, GPS location or ambient radiation levels, or to design a mechanism for a controlled landing, such as a parafoil. Or even to make their CanSat release a small rover after landing.

During the competition, each team's efforts will be judged on scientific relevance, technical achievements and innovative aspects. Teamwork skills and outreach, such as media coverage, will also be assessed. The winning team will automatically be entered into the ESA European CanSat Competition 2020.

How to apply

To participate in the CanSat Competition, you will have to submit a research proposal. The guidelines and the forms needed for your proposal are published on the website of the Dutch CanSat Competition: www.cansat.nl. Please read these documents carefully before applying.

The deadline for proposals is **3 p.m. on 10 October 2019**. The team leader must e-mail the Team Portfolio (including the completed proposal form), together with the Personal Detail Form and the Photography & Filming consent forms to info@esero.nl. Please use the subject line: "2019-2020 CanSat Competition Proposal".

The number of participants is limited; a maximum of 50 teams will be admitted to the competition. The teams will be selected based on the quality of the research proposal and technical feasibility of their idea. Per school, a maximum of 2 teams can participate in the competition.

If half or more of the members of a team have participated in previous CanSat competitions, the team is eligible only if it meets the following conditions: the team members have never won before, the secondary mission of the team is completely new, and the team must show significant progress in comparison with previous competitions.

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Timeline

When your proposal has been accepted, you will receive a confirmation of your team's entry. The confirmation will include an invitation for the team leader (teacher) to attend the teachers' workshop in November.

The CanSat Competition has the following structure:

1 September 2019	Call for proposals online
10 October 2019, 3PM	Research proposals submission deadline
28 October 2019	Team selection announcement
9 November 2019	Teacher workshop
8 January 2020, 4PM	Progress report deadline
28 January 2020*	CanSat Test Day (back-up date: 5 February)*
18 February 2020, 12PM	Final design deadline
2 March 2020	Announcing team selection Launch Event
20 March 2020*	CanSat Launch Event (back-up date: 29 March)*
9 April 2020	Final report deadline
17 April 2020	Award Ceremony
22 – 26 June 2020	European Competition

*Please note that the dates for the test day and launch have yet to be confirmed. The exact dates and any changes will be communicated to the team leaders and announced on the website www.cansat.nl. In case of bad weather, there will be a back-up date for the test day and launch event.

Contact details

For further information, please contact:

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