



CALL FOR PROPOSAL

Dutch CanSat Competition 2018-2019





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Have you ever dreamed of becoming an astronaut, a rocket scientist or a space engineer? Now's 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 will compete against teams from all over the country. Submit your proposal to be part of the Dutch CanSat Competition 2018-2019!

ESERO NL invites secondary school students from 4th to 6th grade of havo and vwo to enter the Dutch CanSat Competition 2018 - 2019. The deadline for entries is **3 p.m. on Thursday 11 October 2018**.

CanSats are small satellites which contain all the essential subsystems, such as power and communications, that can be found in a real satellite. 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 1 kilometre. 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 the 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.

Each team is free to choose their own secondary mission. You could choose, for example, to measure a more advanced parameter, such as acceleration speed, GPS location or ambient radiation levels, or use a control mechanism, such as a parafoil, to land as close as possible to a particular target. You could even choose to make your 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 2019.

How to apply

To participate in the CanSat Competition, you will have to submit a research proposal. The guidelines and proposal form for the Dutch CanSat Competition 2018-2019 are published on the website of the Dutch CanSat Competition: www.ruimtevaartindeklas.nl/cansat. Please read these documents carefully before applying.

The deadline for proposals is **3 p.m. on Thursday 11 October 2018**. The team leader must e-mail the Team Portfolio (to be downloaded from the website) together with the completed proposal form before the deadline to info@ruimtevaartindeklas.nl. Please use the subject line: "2018 - 2019 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. Per school a maximum of 2 teams can participate in the competition.



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Timeline

When your proposal has been submitted and evaluated, 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 2018	Call for proposals online
11 October 2018	Research proposals submission deadline
29 October 2018	Team selection announcement
10 November 2018	Teacher workshop
9 January 2019	Progress report deadline
23 January 2019	CanSat Test Day (back-up date: 30 January)*
17 February 2019	Final design deadline
4 March 2019	Announcing team selection Launch Event
22 March 2019	CanSat Launch Event (back-up date: 29 March)*
9 April 2019	Final paper report deadline
16 April 2019	Award Ceremony
23 – 28 June 2019	European Competition

*Please note that the dates for the test day and launch event are the preferred dates and have yet to be confirmed. The exact dates and any changes will be communicated to the team leaders and announced on the website www.ruimtevaartindeklas.nl/cansat. In the 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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Or visit <http://www.ruimtevaartindeklas.nl/cansat>