

AGENCY

Towards the flight model: EIRSAT-1 survives an intense environmental qualification campaign

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In brief

The [EIRSAT-1 team](#), participating in the second round of ESA's [Fly Your Satellite! Programme](#), has successfully concluded the environmental test campaign on their Engineering Qualification Model (EQM).

In-depth

This milestone ran from 13 September to 15 October 2021 at the [CubeSat Support Facility](#) in ESEC-Galaxia (Belgium), and was a vital step on the road to deployment in space.

EIRSAT-1 is a 2-unit CubeSat from University College Dublin.
It houses three experiments:

— [EIRSAT-1 functional testing](#)

- A Gamma-Ray detector (GMOD) to study the most luminous explosions in the Universe, which occur when a massive star dies, or when two stars collide;
- A thermal coating experiment to study the performance of novel surface treatments (EMOD);
- An attitude control algorithm experiment (wave-based control / WBC) to determine its potential as a viable alternative to