



# GHOST - Intent to Fly (IFF) form

## International Teams

Complete the form below to officially indicate your team's Intent to Fly (IFF) on either the GHOST RockSat-X mission. The pdf version of this form should allow the user to enter the information, save the pdf, and then submit via email to [ghost@andoyaspace.no](mailto:ghost@andoyaspace.no) . The completion of this form is required to participate in GHOST 2025 mission and is due no later than **May 31, 2024**.

Although required, submission of the IFF does not mean that your team has been selected for flight on the GHOST program. Due to the limited experiment space on the launch vehicle, a down-selection process may be needed after the successful completion of the GHOST Conceptual (CoDR) and Preliminary (PDR) design reviews. If a team is down-selected, a full refund for their first payment will be issued minus a small processing fee.

Launch date for GHOST is expected to be November 2025.

You can send any questions about this form and/or the program to [ghost@andoyaspace.no](mailto:ghost@andoyaspace.no)

\* Required

**Email \***

Your email

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**PI Contact Information**

Please provide the contact information for the person who will be the Principal Investigator (PI) for this mission. This could be the faculty advisor or a student but it will be the main point of contact (POC) for the team.

**First Name \***

Your answer

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**Last Name \***

Your answer

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**Email Address \***

Your answer

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**Phone Number \***

Your answer

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**Contact Type \***

Faculty

Student

Other: 

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**Organization/Institution \***

Your answer

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**Address for Organization/Institution \***

Your answer

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**Country \***

Your answer

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## Experiment Details

Please answer the following questions about your experiment with the understanding that your team is just starting out and these details may change.

### Experiment Name \*

Your answer

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**Experiment Description** - Please provide an overview to understand the scope and objectives of your proposed experiment (less than 500 words). \*

Your answer

**Justification for space flight** - Please provide a short response on why your experiment needs/should be performed in a space environment like the one that will be achieved on the GHOST flight (less than 50 words). \*

Your answer

**Student Involvement** - Please describe how students will be engaged on this team, bringing the experiment from idea to launch (less than 300 words)

Your answer

**Faculty/Advisor/Mentor Involvement** - Please describe with enough detail how the students will be advised, supported, and mentored on this team (less than 300 words) \*

Your answer

## GHOST Mission Details

Please answer the remaining questions related to your experiment and the GHOST vehicle.

While there is much more detail contained in the User Guide, here is a basic summary. GHOST experiments will use the WFF RockSat-X interface and are limited to ~30 pounds (13.6 Kg) for a full space and ~15 pounds (6.8 Kg) for a half space. The space is ~10 inch diameter (25.4 cm) by 10 inches tall for full space and ~5 inches (12.7 cm) tall for half space.

RockSat-X provides power and telemetry data for the experiments along with numerous activations before and during the flight. The experiment section is fully exposed to environment of space.

In addition, GHOST offers the possibility of carrying **4 CubeSats units** that will be deployed. These follow the standard sizes and will be a great tool as a technology demonstrator for future space missions and for obtaining measurements away from the rocket body. See more in the User Guide description.

### Which GHOST option will you be using? \*

Please note the total program fees for each option.

GHOST CubeSat-eject

GHOST Half/Full space experiment

## COSTS

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The GHOST Program Fees pay for the GHOST Program. It covers the costs to administer, run, and manage the GHOST program, which begins with reviewing the IFF and ends with a review of each team's final report.

The program fees are used as teams progress through the program and are therefore non-refundable. The cost for a full-space experiment is around 30K \$, half for half-space and around 1/4 of the full-space cost for each CubeSat. Andøya Space is actually looking for solutions to provide financial support to at least some experiments. This will be clarified later. The program fee will be split into three equal payments. The down-selection process will be completed by September 2024. Teams not selected for flight will receive a full refund of program fees paid, minus a small processing fee.

Please acknowledge that you and your team understand this and will follow:

**We acknowledge and will follow**

Other: \_\_\_\_\_

Launching rockets has inherent design issues, schedule risks, technical unknowns, and weather factors. While launch GHOST rocket is the intention of this program, it is not guaranteed. If in the event that the rocket is unable to launch due to any factor listed above or for some other reason beyond Wallops Flight Facility or Andøya control (this has never happened), experiments will be returned to teams and there will not be a refund of the program fee nor will teams be compensated travel.

\*

Please acknowledge that you accept these terms on behalf of your team.

**I acknowledge and accept these terms on behalf of my team**

Other: \_\_\_\_\_



If Wallops and/or Andøya determines your team is non-compliant with the GHOST User Guide at any time (if possible, teams may be given time to become compliant) and/or if your experiment fails a pre-launch delivery and/or testing benchmark, you will be removed from the flight manifest. If integration to the rocket has already occurred, your experiment may still fly as an inactive experiment or it may be returned to you. In both cases, you will not receive a refund of the program fee.

Please acknowledge that you accept these terms on behalf of your team.

**I acknowledge and accept these terms on behalf of my team**

**Other:** \_\_\_\_\_



## **GHOST Program schedule.**

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Below is the preliminary GHOST Program schedule. Please acknowledge below that you have reviewed it before proceeding.

- MAR 2024** - **IFF DUE**
- JUL 2024** - **CoDR/RDM**
- SEP 2024** - **PDR/Down-select**
- NOV 2024** - **CDR/DR**
- JAN 2025** - **STR**
- FEB-JUN 2025** - **Interim Reviews**
- AUG 2025** - **WFF I&T**
- NOV 2025** - **Launch trip, Andoya Space**

**I reviewed the preliminary schedule**

**The 2nd GHOST deliverable** (the 1st is this form) is the Conceptual Design Review (CoDR) and shall be completed by each team during **July 2024**. A template will be provided to teams after this IFF is submitted and accepted. \*

Please provide 3 possible Dates and Times that will work for your team for this 60 minute review. Please keep all times in CET.

Your answer

**On behalf of my team, I acknowledge the conditions and terms \* stated in this Intent to Fly Form and further acknowledge that my team will follow and meet all the requirements of the GHOST User Guide in order to be considered a participant in the GHOST program.**

**I acknowledge and my team will meet the requirements of the GHOST User Guide**

Thank you for completing the 2024 GHOST Intent to Fly Form. You will receive a confirmation email shortly. Please leave any comments below if you have any. Thank you!

Your answer