

PoSSUM 13 Microgravity Flight Challenge

Proposal Guidelines

Proposals shall be no more than five pages long. Please use double-line spacing and 12-point size font similar to Times New Roman. Include figures or drawings to describe your experiment.

In the order listed below, your project proposal should contain the following sections:

1) **Cover page** (Page 1)

The cover page should include all the necessary information about your team and project:

- a) Project title
- b) Names and ages of all students
- c) Name of adult mentor
- d) Description of each team member's role and contributions in the project
- e) Name of school, institution, or after school program
- f) Mission patch design

2) **Short summary** (Page 2, < 300 words)

Provide an overview of all the sections in the proposal. Specify whether your experiment involves human factors or a physical payload.

3) **List of equipment and materials** (Page 2)

4) **Project Description** (Pages 3-5)

A. Introduction

The introduction should contain background information about the science topic you would like to study. It should clearly describe the science question you want to answer and the relevance of the study in the field of space exploration or to benefit life here on Earth.

B. Justification

Clearly explain why a microgravity environment is needed to perform your experiment.

Is 20 seconds enough time to get useful results?

C. Methodology

This section includes a description of the methods proposed for data collection and analysis. Use a schematic, diagram or flow chart to describe your experiment set-up or procedure. If a physical payload will be built, provide a general description of its dimensions and components. Please follow the guidelines and constraints provided in our website.

D. Video

Provide a link of your video at the end of your application. Videos shall be no longer than two (2) minutes and can be narrated in Spanish, English, or French. Upload your video to YouTube (with parent or adult mentor approval). We encourage participation of all students in the video. Be as creative as you want!

- a) Introduce yourself and your team members
- b) Provide a brief description of your experiment idea
- c) What excites you about having an experiment flown in microgravity?