

PROPOSAL TEMPLATES

To develop your NASA TechRise proposal, please use one of the following templates and follow the guidelines below. You are also permitted to draft your own proposal layout, so long as it follows the proposal requirements below and the narrative section does not exceed 3 pages.

- Download the fillable PDF template [here](#)
- Download the MSWord template [here](#)
- Download the Google Docs template [here](#)

PROPOSAL REQUIREMENTS

Your team's proposal must be submitted as a PDF (max 20 MB) that is no longer than four pages. DO NOT include any first & last names, photos of people, usernames, or other identifiable information in your proposal. Mentioning names of significant figures (i.e., a NASA engineer or astronaut) is OK, if it helps explain your entry. Once written, the Team Lead (Teacher or School Employee) can submit the proposal on the NASA TechRise challenge website. Please review the proposal requirements and the proposal guide below:

Proposal Title

Proposal Budget

Check the box if your total estimated cost of purchased components to build your experiment is less than \$1500. (**NOTE - Selected winners will be announced on January 21 and awarded \$1500 to build their experiment.**)

Vehicle Selection

Select which vehicle your proposal is intended for - suborbital rocket or high-altitude balloon.

Proposal Narrative: Pages 1-3

The proposal narrative should be written by STUDENTS and must be no more than 3 pages, 11-point Times New Roman font, 1-inch margins, and single-spaced. (Titles can be a larger font size, if needed.) The proposal narrative must include the following four sections:

- WHAT is your team's experiment idea?
- WHY do you want to propose this experiment idea?
- HOW will you build your experiment?
- WHEN will you complete the different phases of your experiment build? (**NOTE: This is the schedule that you will follow if selected as a winner. Your build timeline should start no earlier than January 21.)

Team Information: Page 4

The "Team Information" section should be filled out by the Team Lead (Teacher or school employee) and added as the fourth page of your proposal.

PROPOSAL GUIDE

Proposal Narrative: Pages 1-3

The guidance below is for the proposal narrative sections. The narrative sections should be written by STUDENTS.

PROPOSAL GUIDE CONTINUES ON PAGE 2

Section 1: WHAT is your team's experiment idea?

Describe your experiment idea. Description may include:

- What scientific question or inquiry do you want to answer? Or what invention are you proposing to build and test to see if it works? (Or both!)
- Background research you have done
- Your hypothesis

Section 2: WHY do you want to propose this experiment idea?

Explain your team's motivation behind proposing this experiment idea. Reasons may be related to:

- Gaining new knowledge or skills by doing this project
- Helping NASA in its mission to explore space or further understand our planet
- Building public awareness around a particular subject

Section 3: HOW will you build your experiment?

****You DO NOT need to build anything, unless you are selected as a winner. This is asking for the plan! ****

Describe your experiment setup and build plan. Description may include:

- What do you plan to measure, monitor, or evaluate during flight?
- How will you design your experiment to operate during flight and achieve your designed goals?
- How will you capture and analyze the results of your experiment to understand whether it worked or to determine what you were able to learn?
- What main components will you need to build your experiment? (Total cost of purchased components should be no more than \$1500)
- An optional drawing, sketch, or diagram can be included in this section, if desired

Section 4: WHEN will you complete the different phases of your experiment build?

For this section, use the milestone table below to explain your proposed experiment build schedule/timeline that you will follow if selected as a winner. The table dates should start NO EARLIER THAN January 21st, 2022, which is when winners are announced and when the build would start. It is important to have a realistic scope for your project based on this schedule and team availability. NASA encourages teams to plan to complete and mail all experiments to Future Engineers on or before June 30, 2022, to align with the 2021/22 academic school year. Per the rules, however, all experiments must be mailed to Future Engineers no later than October 31, 2022. Please know that Future Engineers anticipates monthly check-ins with each winning team and will also offer office hours with a variety of technical experts. Additionally, Future Engineers will plan the following three important reviews with each winning team based on your milestone schedule:

- Review of Proposed Design: Early design review to go over your proposed experiment
- Prototype Review: Design review of experiment in progress
- Final Design Review: Final review before shipping your experiment

Milestones	Date Completed	Short Explanation of what will be done to achieve this milestone
Selected as a Winner (Example)	January 21, 2022	(Example) Submitted an awesome proposal that explained our team's winning design
Review of Proposed Design		
Components Ordered		
Build Begins		
Prototype Review		
Final Design Review		
Experiment Mailed to Future Engineers		

Team Information: Page 4

The Team Information section should be filled out by the Team Lead (Teacher or School Employee) and added as a fourth page of your proposal.

Please provide the number of student team members by grade and then sum up the total number of students.

Grade Level	Number of Student Team Members in Grade Level
Sixth Grade	
Seventh Grade	
Eighth Grade	
Ninth Grade	
Tenth Grade	
Eleventh Grade	
Twelfth Grade	
TOTAL STUDENT TEAM MEMBERS	

Is your school Title I Eligible? _____ Yes _____ No

If unsure, please look up your school's Title I Eligibility status [here](#). If your school is private, please answer No.

Once complete, the Team Lead (Teacher or School Employee) can submit the final proposal at:

<https://www.futureengineers.org/NASATechRise>