Space For All Spring Challenge Announcements

We are partnering with Starfield and XBOX to empower the next generation of space adventurers. We need your curiosity, creativity, and passion to reimagine technologies that contribute to the advancement of space science. Your task is to research, invent, and develop a multi-disciplinary project that intertwines innovation and cutting-edge science to grow our knowledge of space. Winning proposals will feature a comprehensive program to engage the community in fostering STEAM education.

Proposals must be submitted no later than April 7th. Preceding the deadline, SEDS will convene a Proposal Writing workshop featuring an expert alongside the SEDS-USA proposal judging panel. The top teams will be announced by the end of April. Each winning team will receive a grant of up to $10,000, to be given out based on completing project milestones. The teams will also be matched with mentors who will provide guidance in navigating project intricacies and executing comprehensive community engagement.

Your project theme can include but is not limited to:

- Cube Satellite Design and Development
- Astrobiology Research
- Space Observatories and Telescopes
- Space Communication
- Space Medicine and the Human Body
- Manufacturing in Space
- Rover Design and Development
- High-Powered Rocketry
Terms and Conditions

- Each chapter may only submit one proposal. Should multiple proposals from one chapter be submitted, only the first submission will be reviewed.
- Total amount awarded will be split between semesters, with the split being determined by project milestones as laid out on the proposal and project updates at the end of each semester.
- A progress report must be submitted to the projects team (projects@seds.org) at the end of each semester or at the completion of project milestones to receive the next distributions of funds. Progress reports must include a statement or comment from the faculty advisor that they have reviewed the report. Unused funds will not affect the amount of money you will receive next, but your report should account for how you will use the leftover budget for community outreach or your final project.
- Missing a progress report update may subject the team to be put on probation or lose the rest of the awarded funds.
- The sole and final submission for the proposal is on the SEDS webpage: seds.org/space-for-all.
- SEDS and any other partnering organizations on this grant reserve the right to change or modify the conduct, the rules or the guidelines of the competition at any given point in time during which the competition or its funding is still active.
- The judging committee will be composed of SEDS-USA Board and Staff members as well as subject matter experts. Their judging will be final.

PARTICIPATION IN THIS GRANT COMPETITION WILL AUTOMATICALLY INDICATE YOU AGREE AND UNDERSTAND THE TERMS AND CONDITIONS OUTLINED ABOVE.
General Guidelines

- The proposal must be technical, concise and convey the purpose, objectives and milestones of your project effectively.
- We encourage keeping your proposal within 10 pages, although additional reference information can be added via an Appendix section at the end of the report.
- Pictorial representation to convey data or processes is encouraged.
- Label all tables, figures and charts appropriately with proper usage of nomenclature.
- Recommended usage of fonts, but not restrictive: Times New Roman size 12 (content), 14-18 (headings, sub-headings).
Space For All Spring Challenge Proposal Template

Chapter Name and Institution

Proposal Title: Must be brief but descriptive.
Prepared by: Author names and respective positions in chapter.
Faculty Advisor: Name and email address

1. Chapter Introduction

Section 1. In 500 words or less, tell us about your chapter. Things to cover can include:

● What projects are your members actively participating in and what projects, if different, have you done in the past?
● How does your chapter help its members grow professionally and technically (Do you help students attend conferences, provide resume workshops, etc.)? Please provide a few examples and outcomes.
● What makes your club unique from other organizations at your school?
● What topics in STEAM are your members most interested in?

Section 2. In 250 words or less, provide demographics of chapter: Briefly provide class year distribution by percentage, gender distribution by percentage, a major distribution by percentage and how many active members you have in your chapter. Include the date you acquired this information. Examples:
2. Project Introduction and Description

Section 1. This section must include a description of the project, parties involved, stakeholders, etc. Provide research performed on the topic and cite any outside work. This must also include the significance of the project. For instance, is it the first project of a kind your chapter will take on, what kind of impact it will make, what makes you enthusiastic about this project.

Section 2. This section must encompass technical description and procedures involved in the project, briefly summarizing the work done so far, being done currently and planned to be worked upon, from a STEAM perspective. This can eventually be linked to the funding requirements as well, so be brief yet descriptive.

For understanding the parameters, we will be actively assessing, please refer to the rubric’s guidelines provided.

3. Project Management

Section 1. Include a brief explanation of team roles and who is responsible for what.

Section 2. Include milestones- can be broken up in phases, semesters, etc. and must include date of completion.

Section 3. Please include a project timeline with the final product to be finalized in fall of 2025 at the latest. It must include:
● Establish a timeline that precisely outlines milestones, with a clear articulation of success measurement criteria.
● Ensure the team provides a reporting schedule that aligns seamlessly with project milestones.
● Assign specific roles to each team member, emphasizing equal contributions.
● Integrate community outreach steps thoughtfully and intentionally into the plan.
● Set milestone dates with adequate time for progress, ensuring they fall within the defined budget constraints.

4. Project Budget

Section 1. Please provide a budget that includes justifications ex: why you need this specific model or piece.

Section 2. Do you have any alternative or additional funding available / What funding has your chapter received in the past? / What is your chapter’s current budget for the 2023-2024 academic year?

● Ensure each budget item is thoroughly justified with supporting product/research links.
● Calculate the total budget, including any additional funding sources.
● Break down expenses based on project milestones or semesters.
● Clearly explain the storage and security plan during semester breaks, including turnover processes.
● Verify that the total estimated costs align with the given budget, accounting for additional funding.
● Mention all previous funding sources for the project and describe the utilization of those funds.
● Describe the process employed by the project management team and the university pertaining to expenditure from funds made accessible to the team, highlighting prevention measures in place for misuse of funds.

5. Community Outreach Component

Section 1. In 500 words or less, how do you plan on incorporating community outreach into your project? Who is your intended audience? (K-12, community
college, Minority Serving Institutions, local libraries, etc.) What do you hope to achieve?

Section 2. In 500 words or less, if your chapter has done community outreach before, what did it look like? If your chapter has not had prior involvement in community outreach, illustrate an instance where you and your peers have initiative with promoting diversity, inclusivity, or equity? What was the outcome of the community outreach / initiative?

6. References/Citations

Provide all references in APA format.
Space For All Spring Challenge Rubrics

Readability

- Free from distracting mechanical errors (grammar, spelling, and punctuation).
- Well organized. Each section of the proposal is separated and easy to find such as sub-headlines or separate pages.
- Any outside sources used in the proposal are cited in APA format within the text and the works cited page.
- Stays under word count while remaining clear and concise.
- Includes descriptive title that addresses brief overview of project.

Timeline

- Identifies chronological milestones with clear explanation of how reasonable success will be measured.
- Team provides a reporting schedule that aligns with milestones of the project.
- Each team member has defined roles and contributes equally to the project.
- Inclusion of steps to community outreach is well thought out, intentional and thoroughly integrated.
- Dates of each milestone provide adequate time to progress and are within the time constraints of budget.

Budget

- Has well thought out justifications for each item and includes links to specific items when necessary.
- Accounts for the total necessary budget for the project, including additional funding sources (if any).
• Broken down based on timeline milestones, such as per semester of project phases.
• Explains how items will be stored and secured between semesters and the general turnover process.
• The total amount of all estimated costs falls under the given budget plus any additional funding received.

**Significance**

• Significance is stated clearly in how a project addresses a problem or need and it captures interest, is imaginative, or effective in conveying ideas.
• Significance is well justified - i.e. meets one or more of the following criteria.
  o First project of its kind
  o The first project chapter will take on.
  o Expands the students’ subject matter knowledge.
  o Students can apply their classroom knowledge to the project.
  o Contributes to students’ thesis.
• Team demonstrates knowledge and research around the project by providing necessary background or context to the problem or need. Justification of arguments or solutions shows understanding of real-world constraints.
• Discusses other possible solutions and addresses why their proposal is the better option OR identifies potential problems with their proposal and how they will mitigate them.
• Discusses outcomes and benefits of the project including what result is expected and what success looks will be measured.
Community Outreach

- Identifies intended audience (K-12, community college, Minority Serving Institutions, local libraries, etc.) and explains the need to reach out to that audience that ties into significance of project.
- Illustrates an instance where students have demonstrated evidence of adjustment in their own attitudes and beliefs OR promoted engagement with community outreach as a result of working within and learning from diverse communities and cultures.
- Identifies the end goal through measurable means and how the project will benefit the community.
- Involves community members in planning and provides a point of contact for that community (teacher, PTA member, department head, librarian, etc.).
- Demonstrates commitment to social action and community by seeking to create new or strengthen long lasting bonds with community.
- Demonstrates cultural competency by finding creative ways to involve diverse communities in an inclusive and accessible fashion.