



South Dakota Space Grant Consortium
<http://sd.spacegrant.org>
Project Innovation Grants – FY2023
Proposal Guidelines
(Announcement released August 17, 2022)



Vision and Mission - South Dakota Space Grant Consortium (SDSGC)

The vision of the SDSGC is to expand opportunities for all South Dakotans through education, research, and public service in the fields of aerospace, earth, and space science. As the link between NASA and the citizens of South Dakota, SDSGC's mission is to instill the spirit of exploration and discovery in students and educators and in the general public, with a special focus on the fields of Science, Technology, Engineering, and Mathematics (STEM) that are essential for the development of the nation's workforce.

Specific higher education, precollege, and informal education goals can be found in SDSGC's Strategic Plan, located online at: <http://sdspacegrant.sdsmt.edu/SDSGC-StrategicPlanReorg2019.pdf>

Description of Project Innovation Grant solicitation

To identify and stimulate new educational capabilities in the state, the SD Space Grant Consortium (SDSGC) is soliciting proposals for its **Project Innovation Grant (PIG)** program.

Objective of PIGs: Provide seed funding for meritorious projects that:

- 1) Focus on one or more of the following program areas:
 - a) Higher Education (Research included)
 - b) Precollege Education
 - c) Informal Education
- 2) Align with **NASA Mission Directorate research priorities** and/or **NASA Center Areas of Interest** -- see *Appendices A.1 – A.5* posted at:
<http://sdspacegrant.sdsmt.edu/SpaceGrantPIG-FY2023Announcement-AppxA1-A5.docx>
- 3) Show potential to develop into long-term, sustainable programs.

Preference will be given to proposals that:

- 1) Align with one or more of NASA's current priority education areas:
 - a) Effective K-12 STEM teacher education (especially middle-school level)
 - b) Undergraduate STEM education (especially retention and engagement in hands-on, NASA-related activities)
 - c) Serving groups traditionally underrepresented in STEM fields
- 2) Include one or more of the following:
 - a) Mission-driven authentic STEM experiences
 - b) Evidence-based practices
 - c) Diversity and inclusion
 - d) Scalability through partnerships and networks
- 3) Include components associated with the following SDSGC interests:
 - a) NASA competitive student teams/challenges such as high-altitude ballooning (specifically those associated with the National Space Grant program's collaborative *Nationwide Eclipse Ballooning Project* <https://eclipse.montana.edu/>), CubeSats, etc.
 - b) Projects involving work with or at USGS EROS and/or SURF
 - c) Artemis mission projects
 - d) NASA Citizen Science programs (<https://science.nasa.gov/citizenscience>)

List of successful PIG proposal titles, amounts, and organizations from 2006-2020:

- <http://sdspacegrant.sdsmt.edu/PIGs-2006-PresentYear.pdf>

Project Timeframe:

These funds may be used to fund one-year PIG projects during the period of Feb. 23, 2023 through Feb. 22, 2024.

Funding Information

- Up to **\$128,000 available** to fund PIG projects from SDSGC's FY2023 budget
- Projects proposals may request between \$1,000 - \$40,000
- Matching (non-federal cost-sharing) is required at a rate of 1:1 (NASA:Match)
- All FY2023 awards are contingent upon U.S. Congressional approval of the 2023 federal budget and the availability and receipt of FY2023 Space Grant funding from NASA.

Eligibility

- All 24 affiliate organizations <<http://sdSPACEgrant.sdsmt.edu/membership.html>> within the SDSGC are eligible to submit proposals.
- Pursuant to NASA Space Grant requirements, any **student(s) receiving direct NASA Space Grant funding support under a PIG project must be of U.S. citizenship**, although the PI or co-I submitting the proposal need not be of U.S. citizenship provided they are not receiving a NASA Internship or Fellowship under the Space Grant Program.

Due Date

- Proposals must be received by **November 17, 2022**. Award notifications are anticipated to be made by January 18, 2023.

Proposal Guidelines

The narrative portion of the proposal (items 1-3 below) is limited to **three pages** at 12-point font, and must include the following items.

- 1) Project title, applicant name, organization/school, address, phone, email address
- 2) Project abstract (100 words or less)
- 3) Project description
 - a) Measurable objectives with associated metrics to be used to evaluate the success of the project.
 - b) List of any project partners including organization name and role played in project.
 - c) Project timeline.
 - d) Brief discussion of how the project aligns with NASA Mission Directorate Research Priorities and/or NASA Center Areas of Interest (*see Appendices A.1 – A.5 at: <http://sdSPACEgrant.sdsmt.edu/SpaceGrantPIG-FY2023Announcement-AppxA1-A5.docx>* and how the project advances the objectives of the SDSGC.
 - e) Discussion of the potential for the project to develop into a major educational or research program with plans to secure additional future funding from NASA and/or other sources.
 - f) Only in the case of higher education proposals that may involve research and any other subjects where the following support materials would be appropriate: 1) a two-page CV, 2) an indication of current and pending support for the proposed research, and 3) a list of references (citations) for proposed work. (*These items should be appended and are not part of the three-page limit mentioned above*).
 - g) A signed statement by the applicant [i.e., person(s) submitting the proposal] indicating that he/she understands that all students receiving direct NASA Space Grant funding support or anyone receiving a NASA Internship or Fellowship associated with the proposed PIG project must be of U.S. citizenship.
- 4) Budget shall be attached as separate page(s): *See suggested budget format on page 4.*
 - a) Salary/wages
 - b) Fringe benefits
 - c) Travel* (domestic only)
 - d) Supplies* (no single piece of equipment over \$4,999, computer, or clothing purchases allowed)
 - e) Other direct costs (specify)
 - f) Total NASA Space Grant funding requested

* Brief justification for any travel, supplies, or other direct costs required in budget notes.

NOTE: Facilities & Administration "F&A" (i.e., overhead or indirect) costs are not allowed.

Completion, Final Report, and Evaluation Survey

- 1) Grant recipients agree that awarded projects should be completed and all project invoices submitted by Feb. 22, 2024.
- 2) A **Final Report** must be emailed to Tom Durkin <Thomas.Durkin@sdsmt.edu> at the SDSGC Headquarters Office by the end of the project period. The final report must include:
 - a) an introductory summary containing the salient points and the **numbers** of participants reached including students, teachers, and/or general public including age, grade, gender, % minorities, organization names, etc.,
 - b) a description of project accomplishments,
 - c) an assessment of how well the project achieved its intended goals/objectives,
 - d) a list of any products produced (such as educational curriculum developed, if applicable),
 - e) any insightful quotes from project participants,
 - f) citation of any publications/posters/ presentations,
 - g) plans for any next steps, and
 - h) a detailed expense account that will hold up to an audit. Photos are welcome, but not necessary.
- 3) Upon receipt of an email from SDSGC's Program Evaluator, Steckelberg Consulting, LLC, the PIG PI must complete in an **on-line post-project evaluation survey** that will ask for much of the same information that can be cut-and-pasted from the final report, but will also include some evaluation questions.

Proposal Submission

PIG Proposals must be submitted to SDSGC Deputy Director Tom Durkin via email at Thomas.Durkin@sdsmt.edu as a **single-file attachment in either PDF or Word format** and received by **November 17, 2022**. Late proposals will not be accepted.

Questions? Contact Tom Durkin – Email: Thomas.Durkin@sdsmt.edu Phone: 605-394-1975

SD Space Grant FY2023 "Project Innovation Grant" PROPOSAL BUDGET (Suggested Format)
 (Project period: Feb. 23, 2023 through Feb. 22, 2024)

Project Title: _____

| | Proposal Amount <small>(Requested NASA funds)</small> | Non-Federal Cost Share Amount |
|---------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|
| A. Salaries and Wages | | |
| PI | _____ | _____ |
| Co-PI | _____ | _____ |
| Co-PI | _____ | _____ |
| Staff/Other Personnel | _____ | _____ |
| Graduate Student | _____ | _____ |
| Undergraduate Student | _____ | _____ |
| Total Salaries and Wages | _____ | _____ |
| B. Fringe Benefits | | |
| Staff | _____ | _____ |
| Students | _____ | _____ |
| Total Fringe Benefits | _____ | _____ |
| Total Salaries, Wages, and Fringe Benefits | _____ | _____ |
| C. Travel | | |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| Total Travel | _____ | _____ |
| D. Supplies | | |
| | _____ | _____ |
| E. Other Direct Costs | | |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| Total Other Direct Costs | _____ | _____ |
| F. Total Costs | | |
| | _____ | _____ |

Budget Notes (please be brief)

Brief justification for Travel, Supplies, and/or Other Direct Costs: