



South Dakota Space Grant Consortium
<http://sd.spacegrant.org>
Project Innovation Grants – FY2021-2022
Proposal Guidelines
(Announcement released August 28, 2020)



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-FY2021-22Announcement-AppxA1-A5.pdf>
- 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, 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 or two-year PIG projects as follows:

- **One Year Projects:** Feb. 23, 2021 through Feb. 22, 2022
- **Two Year Projects:** Feb. 23, 2021 through Feb. 22, 2023

Funding Information

- Up to **\$238,000 available** to fund PIG projects from SDSGC’s FY2021 and FY2022 budgets
- One-year projects may request between \$1,000 - \$40,000
- Two-year projects may request between \$1,000 - \$80,000
- Matching (non-federal cost-sharing) is required at a rate of 1:1 (NASA:Match)
- All FY2021-22 awards are contingent upon U.S. Congressional approval of the 2021 and 2022 federal budget and the availability and receipt of FY2021-22 Space Grant funding from NASA.
- Funding for two-year projects – Year 2 funding will be contingent upon the “Year 1 Interim Progress Report” described below under the **Completion and Report** section. Funding for FY21 and FY22 is provided from two different NASA grants with different dates of coverage. Thus, PIG funding for two-year projects will consist of two phases. Funding of Year 2 is contingent upon: 1) progress at the end of Year 1 toward achieving overall project objectives, and 2) availability of Year 2 funds from NASA.
 - **NOTE:** *Although SDSGC has already submitted its FY2021-22 Space Grant proposed budgets to NASA at the dollar amounts referenced in the NASA solicitation, the certainty of the dollar amount appropriated for Space Grant by Congress two years from now (FY22) is less than the certainty of currently-anticipated FY21 amounts, due to potential coronavirus-related national budget impacts. Thus, the \$238,000 currently anticipated as being available to fund PIG projects over the two-year period could end up being lower or higher depending on FY22 Congressional appropriations. PI’s should keep that in mind if submitting a two-year PIG proposal, such that when planning Year 2 activities, you have a built-in reduction option if Year 2 funding must be reduced. For one-year proposals, this caveat does not apply.*

Eligibility

- All 23 affiliate organizations within the SDSGC are eligible to submit proposals. A list of the Consortium’s membership is provided at <<http://sdSPACEgrant.sdsmt.edu/membership.html>>.
- 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 **December 15, 2020**. Award notifications are anticipated to be made by February 16, 2021.

Proposal Guidelines

The narrative portion of the proposal (items 1-3 below) is limited to **three pages for one-year** project proposals and **four pages for two-year** proposals (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) For two-year proposals (only), the narrative must include a separate Year 1 workplan and Year 2 workplan (200–300 words each) that align with the Year 1 and Year 2 budgets described in “4f” below, showing how the two phases fit together and how funds budgeted for each phase support the planned work.
 - e) 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-FY2021-22Announcement-AppxA1-A5.pdf>*) and how the project advances the objectives of the SDSGC.

- f) 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.
 - g) 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- or four-page limit mentioned above).*
 - h) 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 (p. 4 for one-year projects or pages 5-7 for two-year projects)*
- a) Salary/wages
 - b) Fringe benefits
 - c) Travel* (domestic only)
 - d) Supplies* (**no equipment, computer, or clothing purchases allowed**)
 - e) Other direct costs (specify)
 - f) Total NASA Space Grant funding requested (for two-year projects, totals should be split out for Year 1, Year 2, and Cumulative Years 1 + 2 pursuant to suggested budget format on pages 5-7.)

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

Facilities & Administration “F&A” (i.e., overhead or indirect) costs are not allowed.

Completion and Progress/Final Report(s) and Evaluation Survey

- 1) Grant recipients agree that awarded projects should be completed and all project invoices submitted by Feb. 22, 2022 for one-year projects and Feb. 22, 2023 for two-year projects, and
- 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 for both one- and two-year projects 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.
 - ❖ For two-year projects, a **Year 1 Interim Progress Report** must be submitted 60 days prior to the end of Year 1 (Dec. 22, 2021). This progress report must summarize: 1) expenditures, and 2) progress toward achieving objectives. Projects showing excessive fund balances or insufficient progress toward objectives will not be eligible for Year 2 support.
- 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 **December 15, 2020**. Late proposals will not be accepted.

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

SD Space Grant FY2020 "Project Innovation Grant" PROPOSAL BUDGET (Suggested Format)
(For one-year project period: Feb. 23, 2021 through Feb. 22, 2022)

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:

SD Space Grant FY2020 "Project Innovation Grant" PROPOSAL BUDGET (Suggested Format)
(For two-year project period: Feb. 23, 2021 through Feb. 22, 2023)

Project Title: _____

Budget for Year 1 of two-year PIG project

	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:

SD Space Grant FY2020 "Project Innovation Grant" PROPOSAL BUDGET (Suggested Format)
(For two-year project period: Feb. 23, 2021 through Feb. 22, 2023)

Project Title: _____

Budget for Year 2 of two-year PIG project

	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:

SD Space Grant FY2020 "Project Innovation Grant" PROPOSAL BUDGET (Suggested Format)
(For two-year project period: Feb. 23, 2021 through Feb. 22, 2023)

Project Title: _____

Cumulative Budget for Years 1 + 2 of two-year PIG project

	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: