



**South Dakota Space Grant Consortium**  
<http://sd.spacegrant.org>  
**Project Innovation Grants – FY2020**  
**Proposal Guidelines**  
(Announcement released November 8, 2019)



### **Introduction**

In order to identify and stimulate new educational capabilities in the state, the SD Space Grant Consortium (SDSGC) is making **\$76,600** available from its FY2020 budget. These funds may be used, to fund competitive **Project Innovation Grant (PIG)** projects for the period **Feb. 23, 2020 through Feb. 22, 2021** in the following program areas: 1) Higher Education (Research included), 2) Precollege Education, and 3) Informal Education. The objective is to provide seed funding for meritorious projects that: A) **must align** with **NASA Mission Directorate research priorities** and/or **NASA Center Areas of Interest** [see *Appendices A.1 – A.5* posted at <http://sd.spacegrant.sdsmt.edu/SpaceGrantPIG-FY2020Announcement-AppxA1-A5.pdf> for a list of NASA research priorities and areas of interest], and B) show potential to develop into long-term, sustainable programs. The proposal must briefly but clearly identify the specific NASA Mission Directorate research alignments and/or NASA Center areas of interest that apply to the proposed project. Preference will be given to proposals with any or all of the following three foci, because they align more closely with NASA's current priority education areas.

1. Effective K-12 Science, Technology, Engineering, and Mathematics (STEM) teacher education (especially middle-school level)
2. Undergraduate STEM education (especially retention and engagement in hands-on, NASA-related activities)
3. Serving groups traditionally underrepresented in STEM fields

All FY2020 awards are contingent upon U.S. Congressional approval of the 2020 federal budget and the availability and receipt of FY2020 Space Grant funding from NASA.

Proposals need not include all of the following over-riding themes, but themes given preference include: A) Hands-on educational experiences, B) NASA's unique resources and capabilities, C) Diversity (individuals, institutions, management), D) Proven methodologies and a good evaluation/assessment plan, E) Leveraging and strengthening strategic partnerships, and F) Workforce development. Also, proposals that include components associated with the following are encouraged: A) NASA's MARS 2020 mission ("*ROADS on Mars Student Challenge*"), B) Sanford Underground Research Facility (SURF) Education & Outreach school visits, summer camps, and curriculum kits, and C) multi-consortia high-altitude student ballooning team partnerships.

All 23 affiliate organizations within the SDSGC are eligible to submit proposals. A list of the Consortium's membership is provided at <http://sd.spacegrant.org>. Individual proposals may request funding in the range of \$1,000 - \$40,000. Non-federal cost-sharing (matching) is required at a rate of at least 1:1 (NASA/Matching).

**Pursuant to NASA training grant requirements, all persons receiving NASA Space Grant funds must be U.S. citizens.** Similarly, SDSGC cannot accept Space Grant PIG applications from non-US citizen PI's or Co-PI's, even if they are not included in the budget for compensation. Proposals must be received by **January 17, 2020**. Award notifications are anticipated to be made by March 12, 2020. Projects should be completed and invoices submitted by February 22, 2021 to comply with the end date of the FY2020 Space Grant program year.

### **Vision and Mission - South Dakota Space Grant Consortium**

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 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://sd.spacegrant.sdsmt.edu/SDSGC-StrategicPlanReorg2019.pdf>

## Proposal Guidelines

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

- 1) Project title, applicant name, organization/school, address, phone, email
- 2) Project abstract (100 words or less)
- 3) Project description
  - a) Measurable objectives with associated metrics that will 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 time line.
  - 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-FY2020Announcement-AppxA1-A5.pdf>*) 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 long-term support from NASA and/or other sources.
  - f) Plan for securing additional future funding from NASA 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, 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*).
  - h) A signed statement by the applicant [i.e., person(s) submitting the proposal] indicating that he/she understands that all persons receiving NASA Space Grant funds must be of U.S. citizenship.
- 4) Budget - can be attached as separate page(s) (*See p. 3 for suggested budget format*)
  - a) Salary/wages
  - b) Fringe benefits
  - c) Travel\* (domestic only)
  - d) Supplies\* (**no equipment, computer, or clothing purchases are 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.

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

## Completion and Final Report and Evaluation Survey

Grant recipients agree that awarded projects should be completed and all project invoices submitted by February 22, 2021, and a final report filed with the SDSGC Headquarters Office by that date. The final report must include a description of project accomplishments and a detailed expense account that will hold up to an audit. The report should begin with an introductory summary containing the salient points and the numbers of participants reached (i.e., students, teachers, and/or general public including age, grade, gender, % minorities, organization names, etc.) The report must also include an assessment of how well the project achieved its intended goals/objectives, a list of any products produced (such as educational curriculum developed, if applicable), potential quotes from project participants, citation of any publications/posters/ presentations, and plans for any next steps. Photos are welcome, but not necessary. SDSGC’s Program Evaluator, Steckelberg Consulting, LLC, will provide a brief post-project evaluation survey that must be completed by the PI and returned.

## Proposal Submission

Proposals must be submitted to SDSGC Deputy Director Tom Durkin via email at [Thomas.Durkin@sdsmt.edu](mailto:Thomas.Durkin@sdsmt.edu) as a **single-file attachment in either PDF or Word format** and received by **January 17, 2020**. Late proposals won’t be accepted.

Questions? Contact Tom Durkin – Phone: 605-394-1975. Email: [Thomas.Durkin@sdsmt.edu](mailto:Thomas.Durkin@sdsmt.edu)

**SD Space Grant FY2020 "Project Innovation Grant" PROPOSAL BUDGET** (Suggested Format)  
 (For project period of Feb. 23, 2020 through Feb. 22, 2021)

Project Title: \_\_\_\_\_

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

**Budget Notes** (please be brief)

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