

# Welcome!

**-2023-**

**North Dakota  
Space Grant Consortium  
Affiliates Business Meeting**

April 21, 2023  
Zoom



Before we begin...

# Recording

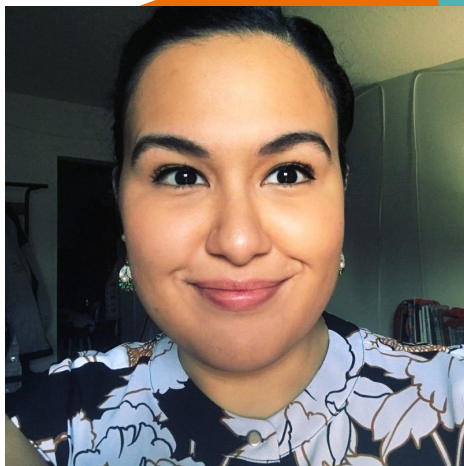
- 2023 Business Meeting to be recorded & Posted on NDSGC website
- “Raise hand” and unmute with questions or use chat!



# NDSGC Team



Dr. Caitlin Milera  
Director



Grecia Flaws  
Office Manager

And 15 STEM Ambassadors!  
(UND, VCSU, BSC)



— Associate Director & Assistant  
Director Positions have been  
submitted for approval by UND

# Introductions

Please tell us your name and the affiliate institution you represent!



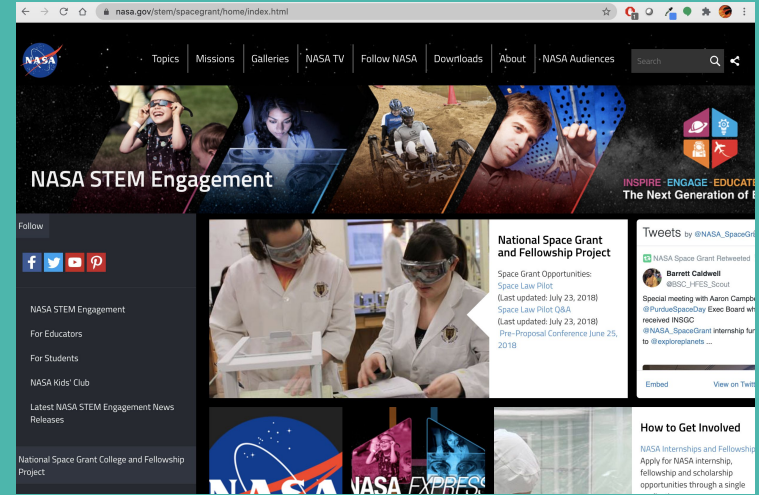
Before we get to the highlights....

# What is Space Grant?

- National Space Grant College and Fellowship Project, established in 1989
- Network of colleges and universities
- Work to expand opportunities for individuals to understand and participate in NASA projects

Website:

<https://tinyurl.com/NASASpaceGrant>



Partner

# Space Grant housed in NASA OSTEM

- 1.) NASA Space Grant
- 2.) NASA EPSCoR (Established Program to Stimulate Competitive Research)
- 3.) Next Gen STEM
- 4.) MUREP (Minority University Research and Education Project)

[Link to Latest NASA STEM Highlights](#)



**NASA STEM**  
**HIGHLIGHTS 2022**

# What is the purpose of Space Grant?

## Five Focus Areas

- 1.) NASA Internships, Fellowships, and Scholarships
- 2.) Higher Education
- 3.) Research Infrastructure
- 4.) Pre-college
- 5.) Informal Education

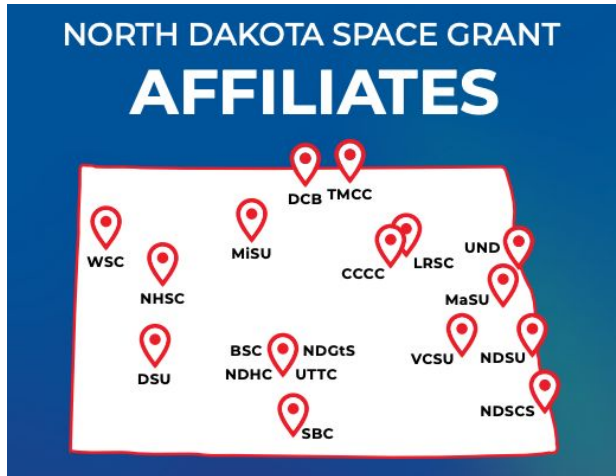
## *NASA Space Grant Mission Statement:*

The NASA Space Grant College and Fellowship Program is a national network that promotes science, technology, engineering and mathematics (STEM) education through cooperative and multidisciplinary programs while recruiting and training the workforce.



# Where is Space Grant?

- All 50 states, including DC and Puerto Rico
- In North Dakota: **Across the state!**
  - 18 Affiliates
  - Space Grant office is at UND



## North Dakota NASA Space Grant Mission Statement:

The NDSGC fulfills the Space Grant mission by involving ND students, faculty, and K-12 teachers and students in multi-institutional, collaborative, NASA-relevant research and education projects, while also educating the ND citizenry about NASA, its purpose, and its missions.







CANKDESKA CIKANA  
COMMUNITY COLLEGE  
*Spirit Lake Dakota Nation*



Nueta Hidatsa  
Sahnish College



Minot State  
UNIVERSITY



STATE  
HISTORICAL  
SOCIETY  
OF NORTH DAKOTA

# NDSGC by the Numbers

Fall 2021 | Spring 2022 | Summer 2022

- 6 NASA Internships
- 10 Student Research Fellowships
- 1 Student Bridge Fellowship
- 96 Scholarships
- 13 STEM Ambassadors
- 8 College Competition Teams
- 7 FIRST Robotics Teams
- 1 ASCEND Grant
- 3 Affiliate Mini Grants
- 3 Travel Grants
- 2 Student Mini Grants
- 18 Plant the Moon/Mars Teams
- **9,112** Reached Through Community Engagement Events

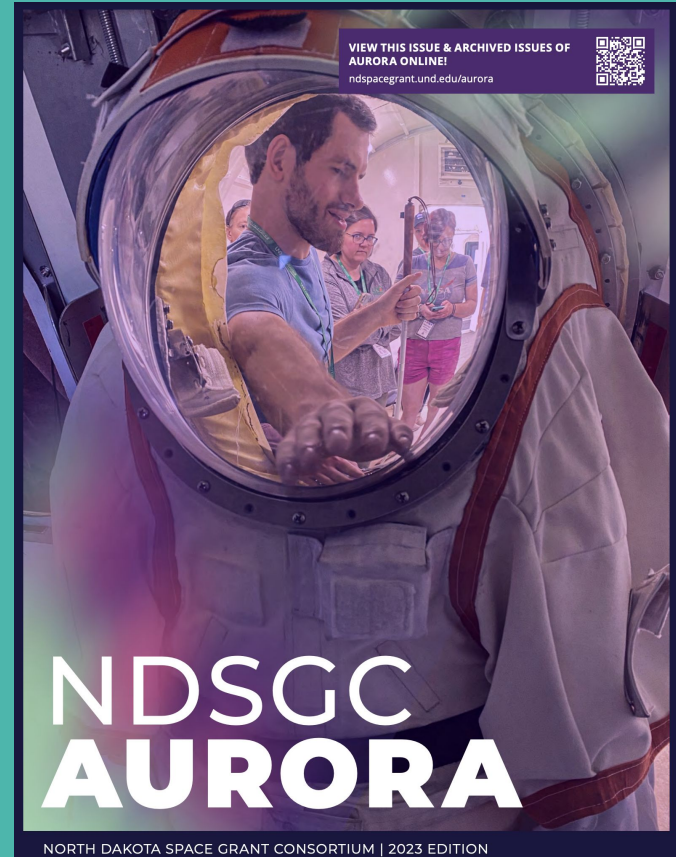


# NDSGC Highlights

<https://tinyurl.com/NDSGC-Aurora>

Thank you to all of our affiliate representatives, staff, faculty, and students!

Together, we are #NASAinND!



# NASA Virtual Site Visit

- September 29, 2022
- Evaluation of SMART Objectives, Overall Goals, DEIA, Budgeting, Infrastructure, Partnerships
- The NDSGC met and exceeded all criteria - Thank you!
- [Link to Site Visit Slides](#)
- [Link to NDSGC Final Site Visit Document & Evidence](#)



# 2022 - 2023 Meeting Recaps

- Fall 2022: Western Region Meeting in Texas
  - STEM Ambassador Presentations: Tori McIntosh & Jacquelyn Emery
- Spring 2023: National Meeting in D.C.
  - Marissa Saad presentation on STEM Competition Teams
- Caitlin & Grecia met with Senators Cramer & Hoeven and Representative Armstrong in March 2023
  - All supportive of NDSGC



# Evaluation



- [BEARS \(Bureau of Evaluation and Research Services\)](#) contract as external evaluator for NDSGC
  - Student participant Interviews
  - Year 1 (April '22 - April '23): STEM Ambassador Program
  - Year 2 (April '23 - April '24): Student Research Fellowships
  - Focus: DEIA in programming
- National Level: [Goldstream Group, Inc.](#)
  - Assessing Space Grant student participants' STEM Identity
  - Interviews & Surveys
  - [Link to findings presented at 2022 Meeting in Texas](#)

# NDSGC Opportunities

- Summer: **May 1st - *deadline extended!***
- Fall: **August 15th**
- Spring: **December 1st**
- Summer Internship: **February 1st**
- Scholarship Funding: **February 15th**
- Competition Team Funding: **November 15th**
- <https://ndspacegrant.und.edu/>



# Award Eligibility

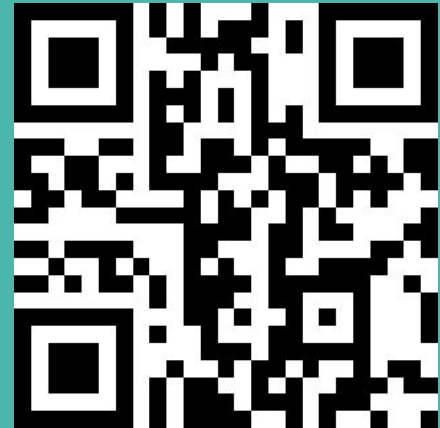
- **GPA:** Minimum 3.0
- **Majors:** Who can get involved in the research?
  - All majors
  - Scholarships are limited to STEM majors (NASA rule of non-nursing, as well)
- **Citizenship:**
  - U.S. Citizens are eligible for direct funding awards
- What about international students?
  - Team participation is allowable; students don't receive direct funding



# How does Space Grant Communicate?

- Email
  - Weekly SEASONS Newsletter
  - SA Sean McCloat ← Thank you!
- Coffee Chats (to continue in Fall '23)
- Informational Webinars
- Submittable
- Docusign

Join our electronic mailing list:  
<https://tinyurl.com/NDSGCemail>



# How do you apply for NDSGC funding?

1. <https://ndspacegrant.und.edu/>
2. Read through available guidance forms and site details
3. Click on the “Apply” button and read through the Submittable application
4. Contact the NDSGC team with any questions
5. Apply and submit application via [Submittable](#)

## ND SPACE GRANT CONSORTIUM

About



College Students



Internships and Fellowships

Scholarships

Grants

STEM Ambassador Program

Competition Teams

Research Facilities

Faculty and Staff Affiliate Members



Educators



Aurora Newsletter

# Guidance Documents

NDSGC Travel Guidance  
Last updated: Spring 2022

## North Dakota Space Grant Consortium Expense and Travel Guidance

This document is targeted for any NDSGC awardee who will make purchases on goods/services and travel to complete their award. To read a specific chapter, you can click on the appropriate title below to jump to that page:

### Table of Contents

Overview of the NDSGC's policy	2
I received an award, how do I proceed?	3
Accept your award	3
Complete your "Additional Set-Up Form"	3
List of Additional Forms	5
How to plan my travel	6
Allowable Travel Expenses	7
Airfare/Rail Transportation	7
Lodging	8
Meals	9
State Fleet Vehicles	10
Rental Car	11
Unallowable Expenses	13
Reimbursement Procedures	13
Prepare your reimbursement forms	13
W-9 Form	14
Direct Deposit Form	14
3. Submit your expenses for reimbursement	15
Creating an invoice	15
Uploading your receipts	15
Frequently Asked Questions	15
NDSGC Contacts:	16

"Everything for awards" (ongoing)

## The ND Space Grant Consortium's "Matching with a Mentor" Guidance



All undergraduate and graduate students applying for an NDSGC [Research Fellowship](#) or [Bridge Fellowship](#) will submit their application through the NDSGC's online application portal, [Submittable](#). If awarded, students will work one-on-one with a faculty researcher, earning a stipend through the NDSGC. Students should seek out an appropriate advisor who will guide their research for a pre-discussed period of time. Please contact the NDSGC team if you have difficulty finding a mentor. (Not sure who else you should work with? Ask your current advisor for a recommendation).

Not sure where to start? Consider the following:

1. Who is your current academic advisor?
  - a. Not sure who your advisor is? Check your Campus Connection (or similar student portal), ask your department chair for assistance, or talk to the undergraduate/graduate student advisor of your college.
  - b. What are your advisor's research interests?
    - i. Visit their faculty page on their department's website to learn about them.
    - ii. Is there a resume or CV listed? These documents serve as a good starting point for understanding faculty research interests and recent projects.
    - iii. Research their past academic publications or presentations at conferences.
2. Schedule a meeting with this advisor.
  - a. What should you say? Make sure you provide your potential research advisor with adequate background information. Be sure you have a solid understanding of the answers to the following questions *before* you meet with this faculty member.
    - i. What are you applying for?
    - ii. What is the NDSGC program?
    - iii. Where would the funding come from?
    - iv. What is their role as an advisor?
    - v. What information will you have to provide in the application?
    - vi. What are the dates and deadlines for this fellowship?
    - vii. How many hours per week will you work on your research?
    - viii. Check out our sample email template below. *You must edit this to make it personal!*

*Rolling application window: apply by the first of each month*

Matching with a Mentor

## How to:

- Set up your NASA Internship account
- Apply for NASA internship positions

Updated October 2021

[Blue text](#) is provided by the NDSGC, not the NASA OSTEM office.  
Screenshots have been taken in October of 2021.

Note: you will only need to make one main application.  
You can add on specific positions as they are available.

North Dakota Space Grant Consortium (NDSGC) questions on NASA Internships can be directed to Marissa Saad ([msaad@space.edu](mailto:msaad@space.edu))

NASA Internship Applications

# What happens when you are awarded?

- You will be sent an award letter via Submittable
- You will be asked to respond with an acceptance message
- You will be asked to complete an award set up form (or further award and communication details will be provided)



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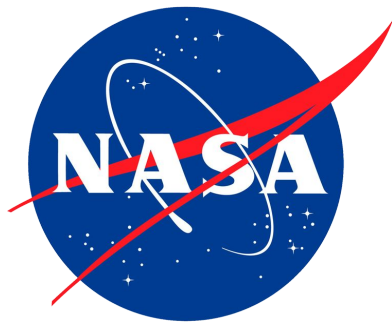
# Award Expectations

- Students will not earn class credit or receive other payments (from a different employer) for the same work they have proposed to the ND Space Grant Consortium.
- Students will uphold and maintain integrity and professionalism while representing ND Space Grant.
- Students who complete any NDSGC research, travel, or work will be invited to present their experiences at the annual statewide Affiliates Meeting.
- Students must acknowledge the NDSGC support in all publications, posters, presentations, etc.

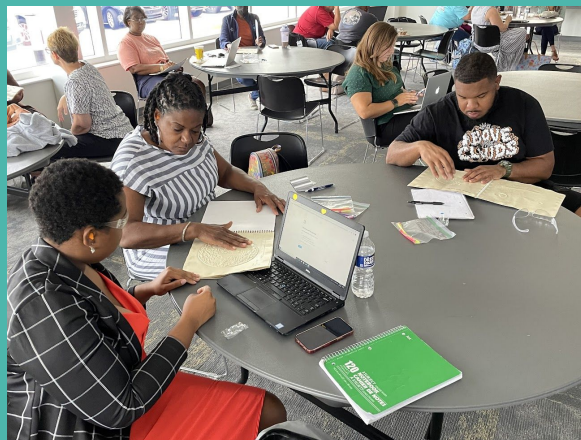


# Award Expectations

- As defined by NASA, all ND intern, fellow, and some STEM Ambassador work (depending on hours worked) is considered a significant engagement and students must provide NASA with demographic data at the end of their award period (i.e. NASA will email you periodically, asking you about your career).
- Students will be featured in the NDSGC's annual newsletter, *the Aurora*.
- Students will provide information on the Mid-Semester Check-in, Final Report, and any other emails prompting for status updates. **Students who fail to complete these forms will not be eligible for future NDSGC funding.**
- Awardees will be asked to participate in ND & National Evaluation (*optional*)\*



# Upcoming Space Grant Projects & Opportunities



# National Eclipse Ballooning Project

55 teams in 2017

90+ teams in 2023-2024





# National Eclipse Ballooning Project

UND Atmospheric Science Department:

Dr. Montana Etten-Bohm

[montana.ettenbohm@UND.edu](mailto:montana.ettenbohm@UND.edu)

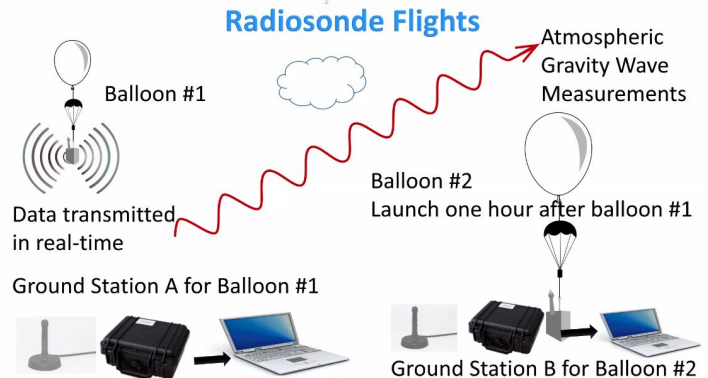
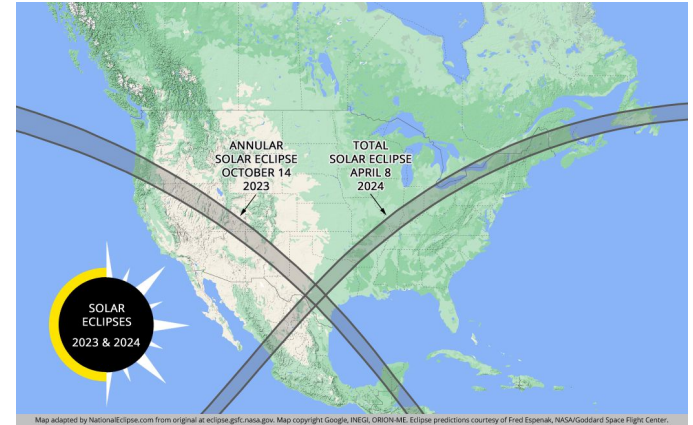
Dr. Jared Marquis [jared.marquis@UND.edu](mailto:jared.marquis@UND.edu)

Fall 2023: UND Course & Oct. 14th Launch

Spring 2023: April 8th Launch

Reach out if you have interested students!

Funding potential for students & mentors



# IDEAS - Educator Professional Development

**What:** Teacher workshop: Focus on Accessibility of NASA activities

**Where:** [Johns Hopkins Applied Physics Laboratory](#)

**When:** July 10-13, 2023

**Who:** SC, NC, & ND Space Grant Consortia; NASA and STEM partners

**Audience:** 30 pre- or in-service educators. ~5 seats are reserved for ND. Educators from rural or Tribal communities are encouraged to apply.

**Applications:** Open May 1 - June 1, 2023

*NDSGC will cover all travel & registration costs for ND participants!*

# Affiliate Opportunities

- NDSGC and STEM Ambassadors are available for affiliate visits!
- Pre-service Educator Workshops
- Campus Career Fairs
- Student Organization Meetings
- K-12 or Informal Education Events
- Consider applying for Affiliate Mini Grants each semester!
- *Any other opportunities?*



# Affiliate Synergistic and Collaborative Engagements across ND (ASCEND)

- Up to two awards of  $\leq$ \$20,000
- RFP: Summer 2023
- ASCEND is designed to promote, develop, and expand NASA research and projects within North Dakota. These grants, which may be research- or teaching-based, will be defined by the goals found within NASA's Mission Directorates (MDs) and the NDSGC's proposal.
- Eligibility: Any staff or faculty member at an [NDSGC Affiliate Institution](#) who is a US citizen and conducting STEM or STEM Education that is relevant to NASA is eligible. Affiliate PIs must be from a non-research NDSGC affiliate institution. Affiliate Co-PIs can be from UND, NDSU, or any NDSGC affiliate institution.

# Coffee Chats

- Informal conversations to network and share opportunities and resources from NDSGC and from affiliate representatives
- Open to all affiliate representatives, funded students/staff/faculty, and prospective awardees
- 30-min. monthly meetings
- Will continue in Fall 2023



# New Assoc. & Asst. Director Positions

- These positions are currently being reviewed for approval by UND Provost
- Plan to announce open positions this spring semester
- Will fill Associate Director position, then Assistant Director position
- Requirements: Bachelor's Degree, Passion for Education & STEM fields



# Upcoming Meetings

- P3 Sessions
  - Promising Programs and Practices
  - ~1.5 hours, Once a month, Mondays at 2pm Central
  - Affiliate representatives welcome!
  - [P3 Archives](#)
- National SG Meeting in Hawaii - Sept. 26 - 29, 2023
  - Potential for Affiliate and Student Involvement
- NASA “Better Together” Meeting - ~Nov. 13-17, 2023
  - NASA OSTEM: NASA EPSCoR, MUREP, NASA Space Grant, Next Gen STEM
  - San Jose, CA

# Budget - Federal & State Dollars

- 6th Augmentation proposal (\$50K) submitted Feb. 2023 - total federal award for FY2023 to be \$910K
  - Increases to student fellowship stipends, Updates to SOs
- Current award: April 23, 2020 - April 22, 2024
- 5th Year Extension solicitation to be released in summer 2023, extending award through April 2025
- Cost Share challenges

## Funding

### Undergraduate Students

- Fall and Spring: \$4,400
- Summer: \$2,800

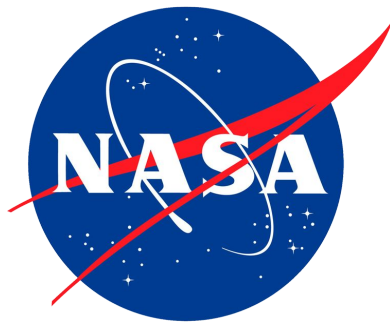
### Graduate Students\*

- Fall and Spring: \$5,400
- Summer: \$3,400



# Budget - Federal & State Dollars

<i>Federal</i>				<i>State Match</i>
<b>Year</b>	<b>Base Award</b>	<b>Augmentation</b>	<b>Total</b>	<b>Total</b>
FY10	\$430,000	\$169,000	\$599,000	\$200,000
FY11	\$430,000	\$185,000	\$615,000	\$200,000
FY12	\$430,000	\$0	\$430,000	\$200,000
FY13	\$430,000	\$0	\$430,000	\$200,000
FY14	\$430,000	\$0	\$430,000	\$200,000
FY15	\$430,000	\$0	\$430,000	\$200,000
FY16	\$300,000	\$270,000	\$570,000	\$200,000
FY17	\$300,000	\$270,000	\$570,000	\$184,224
FY18	\$300,000	\$270,000	\$570,000	\$184,224
FY19	\$535,800	\$45,600	\$581,400	\$184,224
FY20	\$700,000	\$60,000	\$760,000	\$184,224
FY21	\$685,000	\$85,000 and \$30,000	\$800,000	\$184,224
FY22	\$685,000	\$85,000; \$30,000; \$60,000	\$860,000	\$184,224
FY23	\$685,000	\$85,000; \$30,000; \$60,000; <b>\$50,000</b>	<b>\$910,000</b>	\$184,224



# 2023 Meeting - Time for Group Photo!



# Thank you!

Student Symposium & Affiliates Meeting

2024: ND's Gateway to Science

