

To: Office of STEM Engagement
National Aeronautics and Space Administration
Washington, D.C. 20546

Title of Project: Washington NASA Space Grant Consortium, 2022 - 2024
3rd Funding Augmentation

Award Number: 80NSSC20M0104
Augmentation to Announcement Number: NNH19ZHA001C

Amount Requested: \$120,000

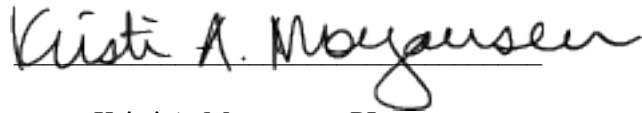
Cost Share: \$43,200

Principal Investigator: Kristi A. Morgansen
Chair
William E. Boeing Department of Aeronautics & Astronautics
University of Washington, Box 352400
Seattle, WA 98195-2400 email:
morgansn@uw.edu

University office to be contacted regarding negotiation of award: Office of Sponsored Programs
4333 Brooklyn Ave NE, Box 359472
Seattle, Washington 98195-9472
Tel: (206) 543-4043; Fax: (206) 685-1732
Email: osp@uw.edu

04/11/2022

Date



Kristi A. Morgansen, PI

4/14/2022

Date



Authorized Organization Representative

Yordanos Michael, Grant and Contract Analyst

Statement of Work

WA Space Grant is currently adding new innovative yet practical approaches to recruiting and retaining more students into STEM. For Years 3 and 4 of the base award, we are seeking to focus on fellowships for graduate students, expanding student resources, and career preparation workshops.

NASA Internships and Fellowships

Our graduate fellowships fall under NIF, with the purpose of preparing a diverse new generation of scientists and engineers for work at NASA and related organizations. All awards are made through competitive processes. Selection is conducted by faculty committees and based on academic excellence and commitment to NASA-related STEM disciplines. At a PWI like UW Seattle, we aim to get started early in advertising these opportunities to relevant departments as a way to help them recruit and retain graduate students from historically excluded populations. We are also developing a formal collaboration with GO-MAP (Graduate Opportunities and Minority Achievement Program) at the UW to further strengthen our applicant pool. With augmentation, we will add 2 additional graduate fellowship opportunities that will be awarded at UW, with potential to include other WSGC Affiliates if faculty mentors can be identified at their institution.

Goal: To increase offered fellowships at WSGC institutions that are competitively awarded. Provide funding for graduate students from historically excluded populations enrolled in programs relevant to NASA projects.

Metric: Award WSGC graduate fellowships to underrepresented minority students at or above 20% and to women undergraduates at or above 50%.

Target Number: 2 graduate fellowships.

Timeline: Applications open in January and are offered by end of March for the following academic year. Fellows will have the opportunity to present their research at Space Grant hosted research talks during the academic year.

Expanded Student Resources

Feedback from students, faculty, and staff strongly indicates that many resources to help historically excluded students succeed in attaining new awards or opportunities are either difficult to find, behind a barrier, or lacking entirely. We intend to make major upgrades to the resources available on the WSGC website, to include: (1) a roadmap of funding opportunities related to (a) NASA competitions and (b) competitive scholarships and fellowships; and (2) resources and matchmaking in finding collaborators and funding. This will be of great benefit across the Consortium, as some student groups at the community college level are struggling to reach a critical mass of participants to join competitions or similar opportunities. We aim to create a system that helps students connect across the state to collaborate on NASA related projects.

Goal: Make significant upgrades to the WSGC website to create a “roadmap” of opportunities for students and educators.

Metric: Develop print and web resources in the areas of: (1) funding opportunities related to (a) NASA competitions and (b) competitive scholarships and fellowships; and (2) finding collaborators and funding.

Target Number: Develop and launch (1) the roadmap of opportunities by June 2023; develop and launch (2) matchmaking capabilities by June 2024.

Timeline: Website development will begin in June 2022.

WA Space Grant Career Launch Program

In recent years, application quality for the UW WSGC opportunities has declined noticeably. We have heard from Consortium members that they are having a similar experience. Practical career

development knowledge is not being transmitted to the students that need it the most. We will take a dual approach to addressing this problem through a new initiative called Space Grant Career Launch. The first effort will be to hold on campus workshops, covering practical skills, for UW and local community college students who have not applied to or received awards. For example, at UW this would include students that apply to our research program, but their application does not receive high scores. The second effort will be to travel around Washington state, holding workshops in collaboration with WSGC partners and K-12 schools. The workshops for educators and students will provide clear information about what scholarship evaluators, internship hosts, et cetera are looking for in applications and how students can submit successful applications. The content for all workshops will be created and disseminated in collaboration with UW College Engineering staff and faculty.

Goal: Increase number of students attaining awards and career opportunities.

Metric: Develop career workshops with practical content to assist students in gaining new awards and career opportunities.

Target Number: 8 workshops at UW, 10 workshops across the state each year.

Timeline: We will formally begin the process in June 2022, with all prep work completed by September 2022. Workshops will take place September 2022 – May 2023.

Budget Justification

Additional support of 1 month for the Deputy Director of Program Operations and 1 month support for the Communications Coordinator is requested. The Deputy Director will manage increased collaboration needed to increase the fellowship awards, and content development for the expanded student resources. In addition, the Deputy Director will facilitate the on and off campus workshops for the Career Launch initiative. The Communications Coordinator will facilitate application management on the WSGC website in addition to the major overhaul of the WSGC needed for the expanded student resources. The Communications Coordinator will also assist in the development of print and web resources for the Career Launch initiative. The current fringe rates used are actual rates in effect are 29.4% for professional staff, and 20.4% for hourly undergraduate students.

Additionally, we will utilize hourly student assistants to assist with general operations for the Career Launch events. This will include preparing materials, event coordination, and student outreach.

- Year 3: 400 hours for the total period of performance is requested for these student assistants at \$18.50 an hour. \$5,000 in cost share will be provided by the UW for an additional 224 hours.
- Year 4: 365 hours for the total period of performance is requested for these student assistants at \$19.43 an hour. \$5,000 in cost share will be provided by the UW for an additional 214 hours.

For the Graduate Fellowships,

- Year 3: \$55,225 is requested to support four fellows at approximately \$27,556.25 for the full year after \$55,000 in cost share is included.
- Year 4: \$55,210 is requested to support four fellows at approximately \$27,552.50 for the full year after \$55,000 in cost share is included.


The Career Launch workshops will include \$15,000 in cost share from the College of Engineering. This initiative will also need \$5,045 in Year 3 and \$5,059 in Year 4 in campus services. In each year this will cover \$1,300 in printing, \$1,400 in catering services, and \$600 in A/V services, with room rentals for \$1,745 in Year 3 and \$1,759 in Year 4. This will support 8 events at the UW.

Additionally, \$5,225 in travel is requested to run 10 workshops in rural locations around the state partnering with WSGC partners, community colleges, and high schools. The travel funds will be used for UW staff. We aim to conduct 2 workshops per trip for a total of 5 trips, with costs broken down below:

Mileage (300 miles each way, 0.56c/mile)	\$336
Hotel (\$135/night, 3 nights)	\$405
Meals (4 days)	\$304
<i>Total for one trip for one person</i>	<i>\$1,045</i>

Date: March 31, 2022

To: Kristi Morgansen Hill, PhD
Professor and Chair
Department of Aeronautics and Astronautics

From:  Jihui Yang, PhD.
Vice Dean, College of Engineering
Kyocera Chair Professor of Materials Science and Engineering

RE: Matching funds for Washington NASA Space Grant Consortium Augmentation
2021-2024

This letter provides confirmation of cost share support from the College of Engineering for the Washington NASA Space Grant Consortium (WASG) Augmentation for 2021-2024. The commitment is for Year 3 and Year 4 of the grant.

PI Name: Kristi Morgansen Hill

Funds Type: Temporary Funds

Total Award: \$21,600 for award of \$120,000

Anticipated Fiscal Funding Schedule:

The cost share commitment will be provided as follows for \$21,600 each of the two years for a total of \$43,200:

Amount per year	Purpose	Org Code
\$5,400	Undergraduate student assistant support for Career Launch events	260-00-04-00-0
\$16,200	P-20 stem pathway career events and training	260-00-01-00-0

How to Claim: **To be provided by the Dean's Office.**

CC: File copy, College of Engineering
Scott Koziol, COE, Box 352180
Jihui Yang, COE, Box 252180
Rachel Reichert, A&A, Box 252400

5 Augmentation Budget Table Samples

Add cells as needed

	5th Augmentation Budget: Year 3 FY 2022 – 2023		
	NASA Funds	Cost-Share	Total Funding
A. Personnel/ Direct Labor			
1. Deputy Director, Program Operations (1 Month)	7650		7650
2. Communication Coordinator (1 month)	6150		6150
3. Student Assistant	7400	4153	11553
4. Staff Support			0
Total Salaries	21200	4153	25353
B. Fringe Benefits			
1. Principal Investigator/ Director	2249		2249
2. Communication Coordinator	1808		1808
3. Student Assistant	1510	847	2357
4. Staff Support			
Total Fringe	5567	847	6414
C. Equipment			
D. Materials and Supplies			
E. Services			
	5045	15000	20045
F. Domestic Travel			
	5225		5225
G. NASA Internships and Fellowships			
1. Internships			
2. Fellowships	20000	0	20000
Total NASA Internships and Fellowships	20000	0	20000
H. Aeronautics Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Aeronautics Mission Directorate Projects			
I. Human Exploration Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Human Exploration Mission Directorate Projects			
J. Science Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Science Mission Directorate Projects			
K. Space Technology Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Space Technology Mission Directorate Projects			
L. Competitive Projects			
1. Project 1			
2. Project 2			
Total Competitive Projects			
Total Direct Project Costs (A-L)	57037	20000	77037
M. Subcontracts			
			0
N. Indirect Cost Base	37037	20000	57037
O. Indirect Cost (8% rate of item N)	2963	1600	4563
P. Total Costs			
	60000	21600	81600

5 Augmentation Budget Table Samples

Add cells as needed

	5th Augmentation Budget: Year 4 FY 2023 – 2024		
	NASA Funds	Cost-Share	Total Funding
A. Personnel/ Direct Labor			
1. Deputy Director, Program Operations (1 Month)	7803		7803
2. Communication Coordinator (1 month)	6273		6273
3. Student Assistant	7092	4153	11245
4. Staff Support			0
Total Salaries	21168	4153	25321
B. Fringe Benefits			
1. Principal Investigator/ Director	2294		2294
2. Communication Coordinator	1844		1844
3. Student Assistant	1447	847	2294
4. Staff Support			
Total Fringe	5585	847	6432
C. Equipment			
D. Materials and Supplies			
E. Services	5059	15000	20059
F. Domestic Travel	5225		5225
G. NASA Internships and Fellowships			
1. Internships			
2. Fellowships	20000	0	20000
Total NASA Internships and Fellowships	20000	0	20000
H. Aeronautics Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Aeronautics Mission Directorate Projects			
I. Human Exploration Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Human Exploration Mission Directorate Projects			
J. Science Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Science Mission Directorate Projects			
K. Space Technology Mission Directorate Projects			
1. Project 1			
2. Project 2			
Total Space Technology Mission Directorate Projects			
L. Competitive Projects			
1. Project 1			
2. Project 2			
Total Competitive Projects			
Total Direct Project Costs (A-L)	57037	20000	77037
M. Subcontracts			0
N. Indirect Cost Base	37037	20000	57037
O. Indirect Cost (8% rate of item N)	2963	1600	4563
P. Total Costs	60000	21600	81600

Milestones:

There are no changes to milestones.