

2023-2024 Faculty Competition, Round 2

Research Infrastructure



Announcement for faculty at:

University of Nevada, Las Vegas; University of Nevada, Reno; Nevada State College;
College of Southern Nevada; Great Basin College; Truckee Meadows Community
College; Western Nevada College; Desert Research Institute

Applications must be submitted by:
Monday, June 5, 2023; 5:00 pm PT

Please note that this solicitation has had a high funding rate

Period of Performance: 08/01/2023-04/09/2024

**NOTE: Please open this document in Adobe Acrobat to view attached paperclip
resource files relevant to this solicitation.**

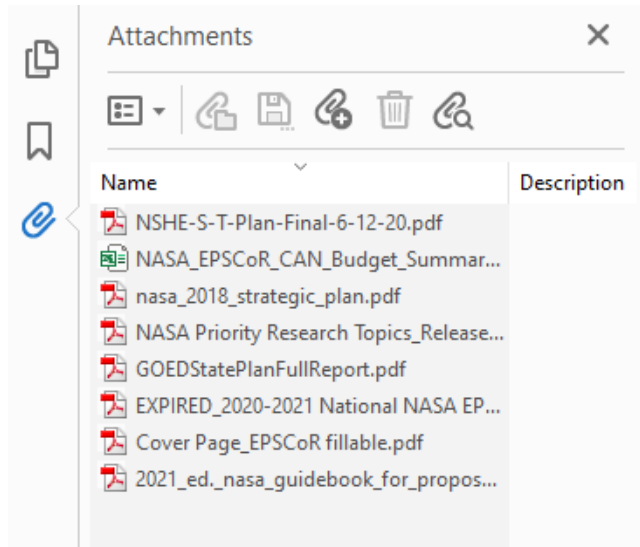


National Aeronautics and Space
Administration (NASA) Space Grant
College and Fellowship Training Program
Cooperative Agreement #:
80NSSC20M0043



Paperclipped Attachments

Please note, to view all relevant attachments to this solicitation including the budget summary, cover page, NASA Mission Directorates, etc., please open this PDF document in Adobe Acrobat and select the paperclip on the left-hand side of the screen (you may need to click the arrow to expand the panel where the paperclip is located). Any questions regarding the paperclip attachments or on how to access these documents can be directed to Gibran Chavez-Gudino at gchavez-gudino@nshe.nevada.edu.



INTRODUCTION:

The Nevada Space Grant Consortium (NVSGC) seeks to develop a diverse and capable Nevada STEM workforce by providing funds for NASA-related faculty research and/or workforce development projects. Selected faculty projects will enhance Nevada's research infrastructure and/or provide STEM workforce development opportunities for students in NASA Mission Directorate research topic areas (see attached list). These funds should not augment existing funded research projects.

PROPOSAL INFORMATION AND INSTRUCTIONS

Eligibility:

- Faculty within any Nevada System of Higher Education Institution, particularly junior faculty, women, and members of other underrepresented populations are encouraged to apply.
- Faculty receiving direct funding **do not have to be U.S. citizens.**
- Faculty who currently have a NVSGC research infrastructure or NASA EPSCoR research sub-award/grant are not eligible until after the end of their project.
- **Important Change for Round 2: Faculty may now apply to the NVSGC Research Infrastructure even if they applied for the NV NASA EPSCoR RID Seed Grant earlier this cycle.**

Award Funding Information:

The Research Infrastructure award will be \$17,800 Federal with anticipated \$25,000 in state matching funds (depending on availability of State of Nevada funding) for 1 RI award. Each submitted proposal must include signed budgets from their home institution. Any collaborating campus should be listed as 1.A. subcontracts on the NSHE budget form for the lead institution. Awards will be made to the lead PI and then their institution will sub-award funds to any

collaborating NSHE institutions. Please note that potential delays in Congressional appropriations and release of funds may result in late sub-awards. We currently anticipate making sub-awards during late Summer 2023. Proposed project period may start on August 1, 2023 and extend through April 09, 2024.

Deadline:

The deadline for application submission is 5:00 pm Pacific Time, on Monday, June 5, 2023. Only applications for which all required materials have been received will be reviewed. Incomplete or late applications will NOT be reviewed.

Award Obligations:

Award recipients are required to prepare a progress and final report following NASA Space Grant guidelines. Detailed reporting requirements will be provided with award notification. Note: You will be required to prepare a brief progress report in January, a final report at the end of the project, provide demographic data about participants and prepare a project highlight for inclusion in an annual NASA Space Grant Congressional report.

Award recipients are also expected to attend and make a presentation at the annual Nevada NASA Space Grant/EPSCoR Statewide Meeting that alternates between Reno and Las Vegas. Travel for this meeting should be included in your budget.

Proposal Guidelines:

Proposals must be typed, single-spaced, and use Times Roman or similar easy-to-read 12 pt. font with numbered pages and 1-inch margins. The proposals should be written such that faculty from a diverse array of scientific disciplines would be able to understand the proposal goals, importance of the research and how the anticipated outcomes will benefit NASA, NV and NSHE. Review panel members will not all have specific expertise within the topic area of each proposal submitted.

1. Cover Page Form (form provided as “paperclip” attachment to this solicitation)

- Signature of Applicant
- Signature of Office of Sponsored Projects/Programs

2. Project Description (limited to 5 pages)

Provide a concise description of the proposed research or workforce development activity, including the following. Please remember that the reviewers will likely not be experts in your topic area, so please ensure that anyone with a general STEM background will be able to understand the importance of the proposed effort and what you plan to do to meet project objectives.

- a. Title
- b. Summary of Project (300 words);
- c. Project goals, objectives and methods (tasks);
- d. Anticipated project products, i.e., publications, proposals, hardware, software, websites, etc.
- e. List of collaborators and expertise they will contribute (including any NASA scientists) Note: if applicable to the proposal, letters of support/collaboration should be included. Letters must be recent and dated within 45 days prior to the solicitation due date;

- f. Plan for student involvement, including recruitment of students from under-served and/or under-represented groups.
- g. Description of how the effort will align with NASA Mission Directorate research priorities (see attached file). Clearly define how your proposed project is relevant to one or more NASA Mission Directorate research priority.

3. Budget and Budget Justification

The Research Infrastructure award will be \$17,800 Federal with anticipated \$25,000 in state matching funds (depending on availability of State of Nevada funding) for 1 RI award. **Note:** depending on the availability of state matching funds, a revised budget with some level of institutional match may be required. Please calculate unrecovered F&A on the state match, as applicable, and place it under the “Institutional Match” column of the budget summary. Unrecovered F&A + SPM direct costs = \$25,000. Please work with your campus Sponsored Programs Office/Business Managers to determine the budget including both Federal and state matching funds.

A budget and budget summary are required and **must be completed using the template provided as attached to this solicitation**. All dollar amounts must be discussed in the budget justification. Direct labor costs should be subdivided and listed by individual and/or titles or disciplines with hours, hourly rates, and total amounts of each. Proposed travel should include the number of trips, destination, duration, etc. The budget must include your institution’s applicable F&A (indirect costs) for the federal portion of the budget. The budget(s) must be signed by the applicant (and collaborator) institution’s Business Office/Office of Sponsored Projects.

All reasonable costs are allowable with the following exceptions:

- a. Foreign travel related to the goals of Space Grant might be allowed with prior approval, but may not exceed \$5000 annually across all projects administered by NVSGC. Note: a post-trip summary report must be prepared and submitted by NVSGC to the National Space Grant Program Office within 10 days.
- b. No equipment may be purchased without prior approval; (standard computer equipment purchases are prohibited). Purchase of any telecommunications equipment produced by Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company or any subsidiary or affiliate of those entities or any entity owned or controlled by or connected to the government of the People's Republic of China (PRC) is unallowable.
- c. Funds may not be used for construction or remodeling of facilities.

4. NASA Funding History (limited to one page)

Provide a detailed list of previous & current NASA funded projects (particularly projects funded by NV Space Grant and NV NASA EPSCoR) for the lead PI. Include the title of the project, the project period, the funded amount, project outcomes and the date the final report was submitted.

5. References/Citations (no page limit)

No page limit.

6. Biographical Sketch or Curriculum Vitae

Limited to two pages per person, including the PI and Co-PI(s) who have a major role in the project.

7. Letters of collaboration from NASA Centers or industry

Any NASA collaborators must provide letters of support and specifically state the contribution they will make. Letters must be recent and dated within 45 days prior to the solicitation due date. Letters of collaboration are not required but are encouraged. A letter of support is highly recommended and will be reviewed favorably.

SUBMISSION GUIDELINES:

Proposals will be accepted until **5:00 pm PT, June 5, 2023**. Proposals must be submitted by the institution Sponsored Programs Office or appropriate Authorized Official. Upload your proposal using the online form as one PDF document at:

<https://nasa.epscorspo.nevada.edu/funding/2023-2024-nvsgc-research-infrastructure-round-2/>

The PDF proposal document should be specific to each applicant and labeled: **PI Last Name First Name NVSGC_RI**. Submissions that are incomplete will not be reviewed and no late submissions will be accepted.

All required submission forms are “paperclip” attachments to this solicitation. You must download and open through Adobe Acrobat to be able to see them.

If your proposal is selected for funding, you will be asked to provide a headshot or photo of you working in the lab/field and sign a media consent form. Your photo will then be posted to the NV NASA Programs website along with your project abstract. If you have any questions or concerns please contact Gibran Chavez-Gudino at gchavez-gudino@nshe.nevada.edu.

EVALUATION AND AWARD CRITERIA:

The screening and selection process will include an internal NSHE faculty review panel that will focus on the following criteria:

- Quality of the research proposal as evidenced by:
 - a. Well defined research goals/objectives
 - b. Clearly defined methods that adequately address the objectives
 - c. Demonstrated ability of faculty to conduct the anticipated work, for example timely submission of final reports for prior NV Space Grant and/or NV NASA EPSCoR awards.
 - d. Anticipated products and/or outcomes are defined; including publications, presentations and proposal development plans are addressed.
 - e. The proposal is written so that individuals from any STEM background can readily understand the importance of the research and that the methods will adequately address the project goals and/or objectives.
- Clearly defined alignment with one or more NASA Mission Directorate research priority. NASA relevance is particularly important.
- Clear benefits to enhancement of NV’s STEM research infrastructure and alignment

- with NSHE Science and Technology and Nevada's Economic Development Plan.
- Budget is appropriate for scope of work.
 - If applicable: NASA support/collaboration is well defined with letter defining level of support and the student participation plan is appropriate and includes outreach to students from under-represented and under-served groups.

CONTACT INFORMATION:

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More information about NV Space Grant may be found at:
<https://nasa.epscorspo.nevada.edu/>