

Faculty Competition

2018-2019

Pre-College Educator Program (Pre-Ed)



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 received by:

Monday, March 12, 2018; 5:00 pm PT



National Aeronautics and Space Administration (NASA)
Space Grant College and Fellowship Training Program
Cooperative Agreement #: NNX15AI02H



Request For Proposals

Pre-College Educator Program

Introduction:

The Nevada Space Grant Consortium (NVSGC) has funding available for Pre-College Educator Programs. The primary focus of this program is to train (pre-service) teachers who plan to teach STEM at K-12 and (in-service) teachers to infuse NASA-related content into K-12 schools. NVSGC is particularly interested in training teachers to provide pre-college students with hands-on science or engineering activities including the development of teams to compete in science and engineering challenges relevant to NASA. NVSGC will also support the inclusion of STEM activities in the curricula of education courses at Nevada K-12 schools. In addition, NVSGC is seeking to support training opportunities for teachers to enhance their knowledge in specific STEM topics that will attract students to STEM disciplines.

- In anticipation of receiving a one-year funded extension of Nevada's current Space Grant award, NVSGC seeks to fund 1 project with a maximum federal contribution of \$25,000 each. Due to requirements of the Space Grant program, a 1:1 institutional match is required on all awarded funds. The total maximum budget amount with match per proposal is \$50,000 (maximum \$25,000 federal + maximum \$25,000 institutional match). The number of awards and funding level is contingent on the availability of funds, which will not be known until the beginning of June 2018.
- Proposed activities may occur during the fall 2018 semester through spring/summer 2019.
- **Student participation is highly encouraged.**
- Collaboration with a NVSGC learning center affiliate is encouraged; these affiliates include: the Fleischmann Planetarium and Science Center (UNR), Jack C Davis Observatory (WNC), and the Planetarium (CSN). Collaboration with a museum or educator center such as the Challenger Learning Center of Northern Nevada or the Discovery Museum is also encouraged.

NVSGC is particularly interested in enhancement activities associated with science, technology, engineering and math (STEM) fields using NASA-related content on the study of earth as a planet and the exploration and habitation of space. Specific areas of emphases include earth systems science and the utilization of NASA resources for studies of climate change, systems engineering and ongoing interests in planetary geology and geophysics, astrophysics and astrobiology. Other innovative activities and strategies that will substantially contribute to the overarching programmatic goal also will be considered.

Eligibility:

- Faculty at any Nevada System of Higher Education institution may apply.

Proposal Guidelines:

As a single PDF file, submit the following documents (1-5):

1. **Cover Page Form (identify this as a Pre-College application): All Forms are available at:**
<https://nasa.epscorspo.nevada.edu/nevada-nasa-space-grant-consortium/for-faculty/forms-resources/>

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2. Results of Prior Nevada NASA Space Grant Consortium or Nevada NASA EPSCoR support

(maximum of 600 words): If any faculty on the project has received NVSGC or Nevada NASA EPSCoR award(s) in the past five years, information on the award(s) is required.

Each faculty member who has received funding must provide the following:

- a. The amount and period of support.
- b. Summary of the results, including tangible outcomes, which could include, but are not limited to: resulting publications; proposals; new collaborations or partnerships; thesis/dissertations; student successes; and engagement of underrepresented groups

3. CV (2 page maximum)

4. Summary of the proposed project (maximum 4 page narrative). Include the following:

Abstract: 500 words or less summarizing the proposed activity

Who: Roles and responsibilities of project participants and the anticipated number of faculty and student participants who will benefit from the project. Name all participants that are known at the time of submission.

- What:**
1. The objectives, methods and anticipated outcomes of the project.
 2. A plan for sustained or additional institutional support of the project and results after the project end date.
 3. Details regarding industry, other campus, or NASA-Center partners' involvement (this is highly encouraged).
 4. Please state if this proposal is in collaboration with another proposal submission.

When: Provide a timeline for the proposed project listing all critical project steps.

Where: Campus(s) and department(s) involved in the project and school district or schools where the curricula and/or project will be available.

- How:**
1. State how the activity will result in the enhancement of, or provide new materials, procedures, or coursework for pre-college programs.
 2. State plans for outreach to underrepresented groups
 3. Provide an evaluation plan that will assess and demonstrate the effectiveness of the project.
 4. Specify how this proposal is aligned with NASA's Strategic Plan 2014, missions or directorates (ARMD, SMD, SOMD), which can be found at:

https://www.nasa.gov/sites/default/files/files/FY2014_NASA_SP_508c.pdf

For your reference, ARMD, SMD, SOMD directorate information is provided at:

<http://www.nasa.gov/about/directorates/index.html>

5. Budget and Budget Justification: There is a 1:1 institutional match requirement. Please calculate unrecovered F&A, as applicable, as part of the institutional match. Please work with your campus Sponsored Programs Office/Business Officers to determine the institutional match. SPM will not be provided for this solicitation by the NSHE SPO. A budget and budget summary are required and **must be completed using the template provided at:** <https://nasa.epscorspo.nevada.edu/nevada-nasa-space-grant-consortium/for-faculty/forms-resources/> Dollar amounts proposed with no

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explanation may reduce proposal acceptability.

Budget – A signed budget by your institutional representative (SPO, Grants, Contracts, etc.).

Budget Justification – Proposed travel should include the number of trips, destination, duration, etc. Student participants must be identified individually.

All reasonable costs are allowable with the following exceptions:

- a. No foreign travel may be charged under this NVSGC award.
- b. No equipment may be purchased; this also includes desktops and/or laptops.
- c. Funds may not be used for construction or remodeling of facilities.

SUBMISSION GUIDELINES must be followed exactly.

- Proposals must be uploaded as one (1) complete PDF file (above mentioned documents 1-5) by your SPO, Grants & Contract, Business office, etc. at <https://nasa.epscorspo.nevada.edu/funding/2018-2019-pre-ed-faculty-competition/> by the deadline of: **Monday, March 12, 2018 at 5:00 pm, PT.**
- Incomplete proposals as well as proposals submitted after that date and time will not be reviewed.
- PDF should be named: **NVSGC_Pre-Col EDU_(your last name).**

Evaluation and Award Criteria: The screening and selection process will include statewide representatives from NSHE institutions and will focus on the following areas:

- Clear, concise, well-written proposal.
- Articulate and clear plans for dissemination/outreach.
- Specific goals and objectives that have measurable outcomes.
- Alignment of the proposal with NASA’s national missions and goals.
- Anticipated effect on STEM education.
- Plan for engaging underrepresented groups.
- Plan for evaluating effectiveness of the proposed activities.
- Plan and potential for sustainability past the duration of the initial award.
- Student and/or NVSGC learning center affiliate participation, as applicable
- Budget is appropriate for scope of work.

Diversity: Diversity and inclusion are integral to the mission success of NASA. To stay competitive in today’s global marketplace, we must have “an organizational culture and work environment where the best and brightest minds – employees with varying perspectives, education levels, skills, life experiences, and backgrounds – work together to achieve excellence and realize individual and organizational potential. NASA strives educate a more diverse American public on the need for robust space and aeronautics programs and their value in advancing the U.S. scientific, security, and economic interests. To do so, NASA will increase outreach efforts to encourage and motivate people, especially young people, from diverse and underserved communities.”

With this in mind, proposals to NSHE for Space Grant Consortium Competitions should broadly aim to enrich and engage faculty and students that reflect the demographic diversity in Nevada.

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Reporting: Reporting will be required for all funded proposals.

- Reporting is the responsibility of the principle investigator of each successful submission. PI's will be responsible for working with the NVSGC program office and all project participants to provide text and data through an online reporting form.
- Profiles/identifier information must be reported for all students receiving significant funding and/or significant engagement (≥ 160 contact hours) for all undergraduate, graduate, and or post-doctoral student participants. An online form is provided.
- Information to be furnished in the report includes:
 - o Project participants (i.e. Faculty, students, etc...) provide titles, roles, demographics;
 - o Highlights and results of the project activities (photos of activities are encouraged);
 - o Progress of the proposed activity(ies) as requested;
 - o Indirect and Direct Participants information: You will need to capture the total number of direct and indirect attendees reached via your activity(ies). *Direct participants are individuals who are direct beneficiaries of the activity (i.e. participants and/or attendees who may have registered for the activity) indirect participants are individuals who indirectly benefit from the NASA activity and/or can only be estimated (i.e. Students participating in revised courses that are developed);*
 - o Plans for program sustainability and follow-on work; and
- Publications, presentations, papers, reports, posters etc. Your information is used for required reporting to NASA Headquarters.

Contact Information:

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