

Faculty Competition

2019-2020

Informal Education (IE)



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, March 18, 2019; 5:00 PT

Please note that this solicitation has had a high funding rate.

Webex Tips & Q/A Click here: [Tues, Jan 29, 2019, 4:00 pm PT](#)

Or call on same day/time: 1-650-429-3300 (access code: 800 696 428)



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



Request For Proposals Informal Education

Background:

The Nevada Space Grant Consortium (NVSGC) has funding available for Informal Education Programs. The purpose of the Informal Education program is to expand past/current successful pre-college informal education projects and partner with other education-based organizations to provide enhanced STEM training to the broadest possible student population in Nevada. We want to promote the development of materials and programs that 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. Student participation in these types of extracurricular activities will increase the likelihood of students enrolling in college within STEM curricula.

Eligibility:

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

Funding:

NVSGC seeks to fund 1-2 projects with a maximum federal contribution of \$22,000 each. Due to requirements of the Space Grant program, a 1:1 institutional match is required on all awarded funds. The total maximum funding amount with institutional match per proposal is \$44,000 (maximum \$22,000 federal + maximum \$22,000 institutional match). Proposed activities may occur during the fall 2019 semester through spring/summer 2020. The number of awards and funding level is contingent on availability of funds. We will announce the proposal(s) selected for funding by late April, but due to the government shutdown and potential delays in appropriations and release of funds, sub-awards will most likely not be released until June 2019. Proposed activities may occur during the fall 2019 semester through spring/summer 2020.

It is highly recommended that you contact your Sponsored Projects Office as soon as possible to inform them that you may apply to this solicitation. Please send them a copy of the solicitation when you contact them. This will give them time to schedule the proposal with their other work, and assist you with the budget and approval process.

Student Participation: Is encouraged, but not required.

Informal Education Submissions:

These funds are specifically targeted to provide STEM pre-college student experiences for learning *outside of formal classroom environments*. Proposals that highlight the following specific areas of emphasis are strongly encouraged:

- Extracurricular training and hands-on experience in the development and deployment of high altitude balloon payloads.
- Projects developing curricular material and programs to provide pre-college students with hands-on science or engineering activities, including the development of teams to compete in science and engineering challenges related to NASA (such as the Human Powered Rover Challenge).
- Proposers are encouraged to involve a population that is representative of Nevada's diversity and inclusion of Title 1 schools.
- Collaboration with a NVSGC learning center affiliate is encouraged but not required; affiliates

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include: Fleischmann Planetarium and Science Center (UNR), Jack C Davis Observatory (WNC), the Planetarium (CSN), the Challenger Learning Center of Northern Nevada and Science Alive (DRI). Collaboration with a museum such as the Discovery Museum is also encouraged.

Informal education activities *must include*:

- Supplemental materials regarding NASA science or engineering related content.
- Informal Education content must be based on state educational standards and/or learning objectives. (See: http://www.doe.nv.gov/Standards_Instructional_Support/Nevada_Academic_Standards/Science/)

Proposal Guidelines

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

- 1. Cover Page Form (identify this as an Informal Ed. application.) All Forms are available at:** <https://nasa.epscorspo.nevada.edu/nevada-nasa-space-grant-consortium/for-faculty/forms-resources/>
- 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). Must include the following:**
 - Abstract:** 500 words or less summarizing the proposed activity
 - Who:** Roles and responsibilities of project participants. The anticipated number of faculty and student participants who will benefit from the project. Please 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) where the curricula and/or project will be available.
 - How:**
 1. State how the activity will result in the enhancement of, or provide new training, materials, procedures, or coursework for pre-college students.
 2. State plans for outreach to underrepresented groups

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3. Provide an evaluation plan that will assess and demonstrate the effectiveness of the IE project.

4. Specify how this proposal is aligned with NASA's Strategic Plan 2018, missions or directorates (ARMD, HEOMD, SMD, STMD), which can be found at:

https://www.nasa.gov/sites/default/files/atoms/files/nasa_2018_strategic_plan.pdf

For your reference, mission directorate and center information may be found through the NASA organizational structure website 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 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 computer equipment.
- 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/2019-2020-ie-faculty-competition/> by the deadline of: **Monday, March 18, 2019 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: **(your last name)_NVSGC_IE.**

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

1. Clear, concise, well-written proposal with specific goals and objectives that have measurable outcomes. (25 pts max)
2. Articulate and clear plans for dissemination/outreach. (10 pts max)
3. Alignment of the proposal with NASA's national missions and goals. (25 pts max)
4. Anticipated impact on STEM education. (10 pts max)
5. Plan for engaging students, particularly underrepresented groups. (10 pts max)
6. Plans for evaluating effectiveness and sustainability of the proposed activities. (10 pts max)
7. Budget and timeline is appropriate for scope of work and well justified. (10 pts max)

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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.

Reporting: Reporting will be required for all funded proposals.

- Reporting is the responsibility of the principal 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 post-doctoral student participants. An online form will be 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
 - o Publications, presentations, papers, reports, posters, proposals submitted, new websites etc. The information is required for 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/>