

**NEW MEXICO NASA EPSCoR:
REQUEST for Notice of Intent and Proposals
NASA EPSCoR Rapid Response Research (R3) Cooperative Agreement Notice (CAN)**

INTRODUCTION

The NASA EPSCoR Program has announced the release of a new solicitation titled “Rapid Response Research (R3).” The goal of this effort is to foster close collaborations among NASA, industry and university faculty to solve specific current NASA research challenges. The funding for each award is \$100,000 for a one-year period of performance to address a subset of NASA topic areas. Each NASA EPSCoR jurisdiction may submit one proposal per topic area. For instance, New Mexico may submit, through the NM NASA EPSCoR Office, up to 20 proposals but only one for each topic area. New Mexico faculty members interested in submitting a proposal must first submit a notice of intent to the NM NASA EPSCoR Office.

The lead Science PIs must contact the NASA point of contact to talk about their research ideas before submitting a notice of intent (and before proposal submission).

The R3 is a collaborative effort between EPSCoR and the NASA Mission Directorate programs/offices. The goals of R3 are to provide a streamlined method to address research issues important to NASA, and to enable EPSCoR researchers to work with NASA to solve research issues impacting the Agency’s programs/missions. The proposed research should also contribute to the overall research infrastructure, science, and technology capabilities, higher education, and economic development of New Mexico.

Some Topic Areas Include (for a complete list and details on each research topic, please refer to the National [NASA EPSCoR R3 CAN solicitation](#)-Appendices A-F):

Science Mission Directorate (SMD) Planetary Division

1. Research opportunities in the area of Extreme Environments applicable to Venus, Io, Earth volcanoes and deep sea vents.

Contact: Dr. Adriana Ocampo; SMD/Planetary Science; Phone: 202-358-2152; Email: adriana.c.ocampo@nasa.gov or Dr. Carolyn Mercer; SMD/Planetary Science; Work Phone: 216-433-3411; Phone: 216-905-1987; Email: cmerc@nasa.gov

Commercial Space Capabilities Office (CSCO)

2. Landed Sensing of Mars Ice: Research opportunities in investigating sensing capabilities to characterize Mars ice deposits.
3. Improvement of Space Suit State of Art

CSCO Contact: Warren Ruummele; (CSCO/UA3) Office Phone: 281-483-3662; Cell: 832-221-1367; Email: warren.p.ruemmele@nasa.gov

Space Life and Physical Sciences and Research Applications (SLPSRA)

4. Dusty Plasmas: Understanding astronomical phenomena involving dust-laden plasmas...

5. Quantum Effects

Contact: Dr. Bradley Carpenter; SLPSRA Office Number: (202) 358-0826; Email: bcarpenter@nasa.gov

6. Drop Tower Studies
7. Transcritical Combustion
8. Fluid Physics
9. Flow Boiling in Reduced Gravity

Contact: Dr. Francis Chiaramonte; SLPSRA Office Number: (202) 358-0693; Email: francis.p.chiaramonte@nasa.gov

GSFC Computational and Information Sciences and Technology Office (CISTO)

10. Computational and Technological Advances for Scientific Discovery

Contact: James Harrington; CISTO Office Number: (301) 286-4063; Email: james.l.harrington@nasa.gov or Daniel Duffy, (301) 286-8830, daniel.q.duffy@nasa.gov or Nargess Memarsadeghi, (301) 286-2938, Nargess.memarsadeghi@nasa.gov

For a complete list and details on each research topic, please refer to the National [NASA EPSCoR R3 CAN solicitation](#)-Appendices A-F.

Important Notes:

1. There is no requirement for matching funds. The total amount to be awarded is \$100,000.
2. The lead administrative PI will be Dr. Paulo Oemig, the NM NASA EPSCoR Director. The lead research faculty member will be listed as the Science PI. The proposals will be submitted through the NM NASA EPSCoR Office; the same as the NASA EPSCoR Research CAN.
3. A **notice of intent** stating the specific topic of the proposal must be submitted by **Wednesday, October 16 , 2019, 5:00 pm MDT** to Mrs. Kristi Hawman, kcoogler@ad.nmsu.edu
4. There will be administrative fees attached to the budget in the amount of \$3000.00 to cover salary and fringe for program office plus 48% F&A on the first \$25,000 on any subaward.
5. The period of performance shall not exceed one year.
6. Please read the National solicitation for specifics about the proposal and research topics.
7. We request that the Science PI communicate with the NASA contact prior to submission of a Notice of Intent to ensure that your proposal idea will meet NASA expectations.
8. Submission of the brief 2-3 page proposals are required no later than November 18, 2019, 5:00 pm MDT to kcoogler@ad.nmsu.edu Budget and budget narrative must be congruent and all solicitation requirements met.

R3 CAN SOLICITATION INFORMATION AND INSTRUCTIONS

A. Eligibility

Full-time faculty at NM institutions, particularly junior faculty, women, and members of other underrepresented populations are encouraged to apply. Faculty who have a current NASA EPSCoR Research CAN project are not eligible to apply while their project is on-going. There is no requirement that Science PIs be U.S. citizens, however, foreign nationals (i.e., non-U.S. citizens who do not have a green card) will likely not be permitted access to NASA Centers. This may or may not be relevant to the research being proposed.

B. Award: Funding Information

The NASA EPSCoR R3 CAN will provide an award of \$100,000 total for a one-year project period with no match requirement.

C. Award Obligations (If selected for Full proposal submission and receive R3 award)

Award recipients are required to prepare final reports and respond to any other reporting requirements provided by the national NASA EPSCoR Office. It is anticipated that this will include quantitative information on participant demographics, project role, number/type of products and a research highlight. The final report must be made publically available either through NASA's *PubSpace* or any other university provided public database. The final report includes: grant proposals submitted; grant proposals funded; papers submitted and/or published in refereed journals; presentations or abstracts at professional meetings, and collaborations with NASA centers and institutions across the state. Data must be archived and adhere to a data management plan.

D. Notice of Intent Preparation

The following information must be included in the NOI:

Lead PI name, phone number, email address, and institution

Working title for the pre-proposal

Clearly indicate research topic area, program, and office or division (as it appears on the NASA solicitation Appendices A through F)

Research abstract / brief explanation of your research idea (500 words max)

Submit NOI by 5:00 pm MDT on October 16, 2019 to kcoogler@ad.nmsu.edu. You must communicate with the appropriate NASA Topic Area Point of Contact prior to submission of the NOI.

NOI Review

NOIs will be reviewed by October 23, 2019 and PIs will be informed whether they can proceed with proposal development. In instances where a common topic area is stated in two or more NOIs, the PIs will be asked if they would be willing to collaborate. If collaboration is not possible, NOIs will be reviewed by a team and the most relevant and well-written NOI will be selected for proposal development.

E. Full Proposal Preparation (merge requirements into a single Word document)

Proposals must be typed, single-spaced, standard one-inch margins and use a Times Roman 12 pt. or comparable font with numbered pages. The proposals should be written such that researchers from other scientific disciplines would be able to understand the proposal goals, importance of the research and how the anticipated outcomes will benefit NASA and NM.

1. Cover Page

- Provide Title
- Cover page will be put together by the NM NASA EPSCoR Office

2. Project Description

Provide a concise description of the proposed research or research-building activities, including the following:

- a) Abstract (4,000 characters including spaces)
- b) Data Management Plan (4,000 characters including spaces)
- c) Table of Contents (no page limit)

- d) Scientific/Technical/Management Plan (2-3 pages limit, it includes tables and figures).
For this section consider:
- i. Project goals and research objectives; intrinsic merit of the proposed research
 - ii. Brief statement on how the proposed research meets the topic area need identified in the solicitation
 - iii. Tasks and methods/unique or innovative approaches
 - iv. SMART objectives with measurable outcomes
 - v. An approximate timetable for project completion
 - vi. List of collaborators and expertise they will contribute (including any NASA personnel)
 - vii. Describe current and/or previous interactions or partnerships with NASA researchers in the area of the proposed research and how future partnerships between institution's researcher and NASA will be fostered. Include name(s) and title(s) of NASA researchers with whom you will partner.
 - viii. Brief discussion of likely outcomes (i.e., publications, patents/licenses, technology transfer, new hardware/software, new or revised courses, new proposals with potential program you will apply to, etc.)
- e) References and Citations (no page limit)
- f) Biographical Sketches for:
- i. the Science Investigator (Sc-I) (2 pages limit)
 - ii. each Co-Investigator (Co-I) (1 page limit)
- g) Current and Pending Support (no page limit). Include title of project, project period, funded amount, and anticipated outcomes.
- h) Statements of Commitment and Letters of Support (no page limit). Letters should specify the type of support/commitment.
- i) Budget Justification: Narrative and Details (no page limit) See section #3 for more details.
- j) Facilities and Equipment (no page limit). List any existing facilities and major equipment that will be used for the proposed project.
- k) Special Notification and/or Certification (no page limit)

3. Budget and Budget Justification

Provide a budget and a detailed budget justification by each institution involved in the project. PIs are encouraged to work with their Sponsored Programs Office and/or Business Managers well in advance to develop the budget.

- a) Follow NASA budget guidelines as well as the OMB Uniform Guidance when developing the budget.
- b) Include appropriate fringe, IDC, tuition and other costs.
- c) Sample budget tables may be found at the end of this document.

The proposed budget shall be adequate, appropriate, reasonable, and realistic, and demonstrate the effective use of funds that align with the content and text of the proposed project. Preparation guidelines for the budget can be found in the *NASA Guidebook for Proposers*, Section 3.18 and appendix C.

The budget will be evaluated based upon the clarity and reasonableness of the funding request. A budget narrative shall be included that discusses relevant budgetary issues such as the extent and level of jurisdiction, industrial, and institutional commitment and financial support, including resources (staff, facilities, laboratories, indirect support, waiver of indirect costs, etc.).

F. Submission Guidelines:

Notices of Intent must be submitted no later than 5:00 pm MDT on October 16, 2019. Email NOI to kcoogler@ad.nmsu.edu. NOIs should be submitted only after communication with the NASA point-of-contact for the topic area of interest. If you are selected to proceed to full proposal, the final date to submit a proposal to the NM NASA EPSCoR Office is **November 18, 2019**. To submit a proposal please submit a word and an excel document using the naming convention: **PI Last Name_First Name_NASA_R3**. Submissions that are incomplete (see requirements 1-3 above) will not be submitted to the National solicitation.

PROPOSAL REVIEW AND SELECTION

All full proposals submitted will be reviewed by the National NASA EPSCoR Program Office. As stated in the National NASA EPSCoR R3 CAN:

Review of proposals submitted in response to this CAN shall be consistent with the general policies and provisions contained in the *NASA Guidebook for Proposers*, Appendix D. Selection procedures shall be consistent with the provisions of the *NASA Guidebook for Proposers*, Section 5. However, the evaluation criteria described in this CAN under Section 4.0, Proposal Evaluation, takes precedence over the evaluation criteria described in Section 5 of the *NASA Guidebook for Proposers*.

Proposals will be evaluated based on the proposed research approach (intrinsic merit-65%) that addresses the proposed research, management (20%), and budget (15%).

Contact Information

NM NASA EPSCoR Program Director
Paulo Oemig, Ph.D.
poemig@ad.nmsu.edu

NM NASA EPSCoR Program Specialist
Kristi Hawman
kcoogler@ad.nmsu.edu
575-646-6414

ADDITIONAL LINKS:

A PDF copy of the NASA EPSCoR R3 CAN Solicitation may be found at:

https://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=709958/solicitationId=%7B9CB89F2B-D428-3C7B-A97F-2348F2377E5A%7D/viewSolicitationDocument=1/FINAL_FY%202020%20R3%20CAN.pdf

A PDF copy of the NASA Guidebook for Proposers may be found at:

<https://www.hq.nasa.gov/office/procurement/nraguidebook/proposer2018.pdf>

