

1. Short Title: (you can enter up to 1000 characters)

2. Type of institution:

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3. Carnegie Classification

*Please indicate the PI's organization Carnegie Classification. See <https://carnegieclassifications.acenet.edu/carnegie-classification/classification-methodology/basic-classification/> for the classification of R1 vs not R1 research activities. See <https://tinyurl.com/PUIdefinition> for information on Primarily Undergraduate Institution (PUIs).*

Very highly research intensive (R1)

Not very highly research intensive but offering advanced degrees (some doctorates, masters degrees)

Primarily undergraduate institution (two- or four-year)

Not a degree granting institution

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4. Will any funding be provided to a federal government organization including NASA Centers, JPL, other Federal agencies, government laboratories, or Federally Funded Research and Development Centers (FFRDCs)?

Yes

No

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5. Is this Federal government organization a different organization from the proposing (PI) organization?

*(Answer N/A if answer to previous question is NO. Answer YES for different NASA Centers).*

Yes

No

N/A

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6. Research Category:

*This question is asked for broad, SMD directorate level statistical purposes. Please choose the category that closest describes the work being done. If a particular program element does not permit a type of work, this question is not meant to imply that it is allowed.*

7. Team members not confirmed via NSPIRES (you can enter up to 4000 characters)

*If a Team Member cannot confirm their participation via NSPIRES, they must be listed here. Give name, institution, city, state or country, and a brief description of the role. A statement of commitment is required for those listed here, see Section IV(b)v of the ROSES Summary of Solicitation for an example. Do not list administrative support staff, such as resource analysts, nor unnamed students or post docs.*

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8. Does this proposal contain information and/or data that are subject to U.S. export control laws and regulations including Export Administration Regulations (EAR) and International Traffic in Arms Regulations (ITAR)?

*\* It is the proposer's responsibility to determine whether any information in the submitted proposal is subject to provisions of the EAR and/or ITAR. This question addresses only the content of this proposal and not any activity that follows as a result of a potential award.*

Yes

No

9. I have identified the export-controlled material in this proposal.

*If you answered, "YES" above, you must identify explicitly (e.g., figure number, paragraph reference), by statements or highlighting, those parts of the proposal that contain export-controlled material so that it can be redacted if necessary.*

Yes

No

N/A

10. I acknowledge that the inclusion of such material in this proposal may complicate the government's ability to evaluate the proposal.

*While inclusion of export-controlled material in proposals is not prohibited, proposers are advised that inclusion of such material may complicate NASA's ability to evaluate proposals, as NASA may employ non-U.S. Persons, who are not lawful permanent residents of the U.S., to review proposals submitted to this solicitation.*

Yes

No

N/A

11. Does the proposed work include any involvement with collaborators in China or with Chinese organizations, or does the proposed work include activities in China?

*NASA's appropriation from Congress includes this restriction: "None of the funds made available by this [law] may be used for the National Aeronautics and Space Administration or the Office of Science and Technology Policy to develop, design, plan, promulgate, implement, or execute a bilateral policy, program, order, or contract of any kind to participate, collaborate, or coordinate bilaterally in any way with China or any Chinese-owned company unless such activities are specifically authorized by a law enacted after the date of enactment of this division."*

Yes

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**The National Environmental Policy Act (NEPA) obligates NASA to consider the potential environmental effects of proposed projects, including those that NASA funds which are implemented by grantees. The majority of grant-related activities are categorically excluded as research and development projects that do not pose adverse environmental impacts. The following questions enable NASA to ascertain whether your proposal will require additional NEPA analysis if selected (e.g., filling out an Environmental Checklist) or the completion of NASA's Executive Order (EO) 12114 Checklist for an activity to be conducted abroad. "Yes" responses are not selection criteria, however, if a "Yes" response is marked, proposers should consider NEPA and/or EO compliance in cost and schedule estimates.**

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12. Would the proposal involve any activity that includes: a. Construction of new facilities or modification to the footprint of an existing-facility, or b. Ground disturbance (e.g., excavation, clearing of trees, installation of equipment, etc.), or c. Outdoor discharges of water (e.g., waste water runoff), air emissions (e.g., ozone-depleting substances) or generation of noise exceeding 115 dBA (excluding those associated with aircraft operations)?

Yes

No

13. Would the proposal involve any field activity that would: a. Release equipment (e.g., dropsondes, sensors, etc.) or chemicals (e.g., dyes, tracers, etc.) into the air, bodies of water or on the ground, or b. Release a parachute or use equipment that would not be recovered, or c. Involve equipment or a payload that contains hazardous (e.g., petroleum, hypergols, oxidizers, solid propellants, etc.) or radioactive materials?

Yes

No

14. Would the proposal involve the launch of a payload, equipment, or instrument (e.g., via launch vehicle, sounding rocket, balloon, etc.)?

Yes

No

15. Would the proposal involve any activity to be conducted outside the United States or its territories excluding travel for meetings or conferences?

Yes

No

16. Comments (you can enter up to 4000 characters)

*The Comments block below allows you to expand on any "Yes" responses to the NEPA questions above to provide context, background and perspective.*

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17. Does this proposal contain a citizen science component?

*Citizen Science is a form of "open collaboration" in which individuals or organizations participate voluntarily in the scientific process in various ways. Citizen science projects must be open to participation by new volunteers at some phase of the project, not limited to a pre-determined list of participants. Before submitting a citizen science proposal please read the Policy for SMD-funded citizen science projects which, along with examples of SMD citizen science projects, may be found at <https://science.nasa.gov/citizen-science/>. Questions about citizen science may be directed to [Marc.J.Kuchner@nasa.gov](mailto:Marc.J.Kuchner@nasa.gov).*

Yes

No

18. AI or ML?

*Would Artificial Intelligence (AI) or Machine-Learning (ML) tools be used or developed?*

Yes

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No

19. Relevant Division(s) (To which SMD division(s) are the results of this proposal applicable? )

*\* To which SMD division(s) are the results of this proposal applicable? (the strategic objectives for each division may be found at: <https://science.nasa.gov/astrophysics/science-questions/>, <https://science.nasa.gov/planetary-science/science-questions/>, <https://science.nasa.gov/heliophysics/science-questions/>, <https://science.nasa.gov/earth-science/>, <https://science.nasa.gov/biological-physical/>)*

Astrophysics

Biological and Physical Sciences

Earth Science

Heliophysics

Planetary Science

20. Interdivisional Explanation (you can enter up to 4000 characters)

*If you chose more than one division, please add an explanation for your answers above. Your answer to this question will solely be used to understand the amount of interdivisional research proposed to ROSES. It will play no role in proposal evaluation or selection.*

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21. Moon or Mars team

*\* If selected, the PI or Science PI will be placed on one team, either the Moon or Mars team. For which team or teams would the PI or Science PI like to be considered?*

Moon

Mars

22. PI's terminal degree (you can enter up to 1000 characters)

*\* What is the year of the PI's terminal degree? If the PI's terminal degree is still in progress, answer "In Progress."*

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