

NASA WANTS YOUR IDEAS

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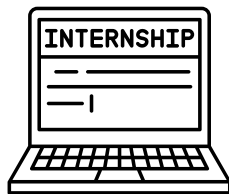


Student challenge opportunities from NASA

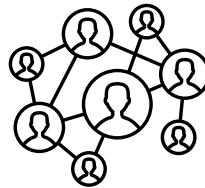
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Real-world Experience



Internships



Networking with
NASA & Industry



Team Building Skills

National Aeronautics and Space Administration

2024 Theme ADVANCING AVIATION FOR NATURAL DISASTERS

GATEWAYS TO
BLUESKIES

WEBSITE [BLUESKIES.NIANET.ORG](https://blueskies.nianet.org) | CONTACT [BLUESKIES@NIANET.ORG](mailto:blueskies@nianet.org)

2024 Gateways to Blue Skies: Advancing Aviation for Natural Disasters Competition

Competition Context: As climate change increasingly influences the frequency and severity of natural disasters on a global scale, opportunities to contribute at the intersection of technological advancement, aviation, and natural disasters grow in both number and importance.

In the 2024 Gateways to Blue Skies Competition, teams will conceptualize, in terms of feasibility and viability, aviation-related system(s) that can be applied by 2035 to one phase of management of a chosen type of natural disaster to improve capabilities..

Notice of Intent Deadline: October 16
Learn More: blueskies.nianet.org

2024 Revolutionary Aerospace Systems Concepts - Academic Linkage (RASC-AL) Competition

Competition Context: Teams will develop new concepts that leverage innovation to improve our ability to operate on the Moon, Mars and beyond. For the 2024 RASC-AL Competition, teams are asked to design innovative solutions with supporting original engineering and analysis in response to one of the following four themes:

- Long Duration Mars Simulation at the Moon
- Sustained Lunar Evolution
- AI-Powered Self Replicating Probes - an Evolutionary Approach
- Large-Scale Lunar Crater Prospector

Notice of Intent Deadline: October 11
Learn More: rascal.nianet.org

2024 RASC-AL COMPETITION

Long Duration Mars Simulation at the Moon | Sustained Lunar Evolution
AI-Powered Self-Replicating Probes - An Evolutionary Approach | Large Scale Crater Prospector

[HTTPS://RASCAL.NIANET.ORG](https://rascal.nianet.org) | RASCAL@NIANET.ORG

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2024 Human Lander Competition: Mitigating Lunar-Plume Surface Interaction (PSI)

Competition Context: The Human Lander System Program is responsible for transportation in deep space to carry humans to and from the surface of the Moon for NASA's Artemis lunar exploration program. When Artemis astronauts land on the Moon, their spacecraft will stir up a cloud of dust. This effect is called plume-surface interaction (PSI), and it can increase risks caused by lunar dust.

For its inaugural year, the 2024 Human Lander Competition, teams are invited to submit proposals for innovative, systems-level solutions to understand, mitigate, and manage the impacts of lunar PSI that can be implemented within 3-5 years.

Notice of Intent Deadline: October 22
Learn More: hulc.nianet.org

2024 Breakthrough, Innovative, and Game-changing (BIG) Idea Challenge: Inflatable Systems for Lunar Ops [COMING SOON]

Competition Context: One of the biggest constraints to establishing a sustainable human presence on the Moon is the immense mass and volume of assets needed to support this effort. This is why NASA is looking for novel and cost-effective technologies and applications that utilize inflatable systems that could support Artemis Missions.

In the 2024 Challenge university teams are invited to submit proposals to design, develop, and demonstrate novel uses of low (Size, Weight, and Power) SWaP inflatable technologies, structures, and systems* for a wide variety of lunar applications.

Notice of Intent Deadline: October 4
Learn More: bigidea.nianet.org



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