

What is the NSF Aeronomy Program?



The program supports research on the phenomena of ionization, recombination, chemical reaction, photo emission, and the transport of energy and momentum within and between the mesosphere, thermosphere and ionosphere.

Total FY18 budget: 10M.



CEDAR: Coupling Energetics and Dynamics of Atmospheric Regions.

Community-driven, targeted program whose priorities are aligned with a CEDAR strategic plan.

Since 2013: "Systems science":

An integrated, multi-scale picture of geospace processes and how these contribute to the broader Sun-Earth system.

Total CEDAR budget: Usually ~3M/year.

What are my chances of an award?

2018	Aeronomy core
Science proposals submitted (no workshops, supplements)	44 projects 64 proposals
Held over from 2017	3 projects 4 proposals
Funded (rated H and H/R)	15 projects 22 proposals
Success rate	34% (projects) 34% (proposals)
How we did it	EPSCoR OPP, MAG cofunding. Plus-up to 10M, for lidars.

Proposal Strategies

- Stress intellectual merit.
- Provide science closure.
- Include education, training and broader impacts.
- Be bold, transformative.
- Be interdisciplinary.
- Resubmitted proposals must be revised or they may be returned without review.
- Clearly indicate collaborations, to help expedite the review process.

Look for other NSF opportunities:

- MRI (Major Research Instrumentation)
- Research Advanced by Interdisciplinary Science and Engineering (RAISE).
- Early Concept Grants for Exploratory Research (EAGER).
- Rapid Response Research (RAPID).
- Prediction of and Resilience Against Extreme Events (PREEVENTS).

Look for other NSF opportunities:

- International opportunities (OISE).
- Earthcube: Partnership between GEO and CISE to develop cyberinfrastructure for geoscientists.
- Big Ideas: Navigating the New Arctic.
 Harnessing the Data Revolution.

Unfunded Collaborators

- Do they contribute intellectually to the scientific work on the proposal? If yes, they are equivalent to Co-Is.
- If supplying observations/models in the standard way, listing them as unfunded collaborators creates unnecessary problems with conflicts of interest.
- Letters from unfunded collaborators are not required.
- Letters of support are not allowed at NSF.

PRFs and GRFPs

PRF solicitation has been archived while we implement changes to the program. Expecting new solicitation soon.

GRFPs - to select the appropriate category, go to GEOSCIENCES. There are categories for Aeronomy, Mag, and Solar.

Please communicate with your PO when you submit a GRFP, so we know to be on the look out for it.



Science Highlights

Please send us your science highlights!!

We want to promote the work you do and are frequently called upon to provide content for high level talks.

We can provide you with a template.