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**SAFIRE**  
*propelling research forward*

Scientific Aviation Funding for  
Innovative Research Experiments

## **REQUEST FOR PROPOSALS**

Proposal Deadline: Applications accepted on a rolling basis  
year-round

A new research initiative sponsored by:  
**SCIENTIFIC AVIATION**

with contributions from:  
**NOAA**

Questions and completed applications can be sent to [safire@scientificaviation.com](mailto:safire@scientificaviation.com). All information about the SAFIRE program including application forms, updates, and answers to frequently asked questions can be found on the website:

[www.scientificaviation.com/safire](http://www.scientificaviation.com/safire)



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## Scientific Aviation Funding for Innovative Research Experiments (SAFIRE)

*Propelling Research Forward*

The inaugural SAFIRE program sponsored by Scientific Aviation, Inc. (SciAv, [www.ScientificAviation.com](http://www.ScientificAviation.com)) is intended to provide free research and test flight hours for chemically-instrumented airborne projects that need field validation prior to securing large-scale funding from a major organization such as NSF, NASA, NOAA, or state agencies. The program provides up to 100 flight hours per year on SA Mooney aircraft to principal investigators (PI's) needing airborne chemical measurements. PI's with little or no experience with airborne measurements are encouraged to submit proposals; one of the goals of the program is to **help those researchers gain sufficient experience in airborne field campaigns** to submit competitive proposals to major funding organizations. Additionally, **this program is designed to support airborne research that is cutting-edge** and for which major funding may be difficult to secure without pilot studies or preliminary data.

In addition to the no-cost flight hours, Scientific Aviation will augment successful proposals by providing meteorological and chemical measurements, also at no charge. SA provides flight-rated CH<sub>4</sub>, CO<sub>2</sub>, H<sub>2</sub>O, NO<sub>2</sub>, NO, and O<sub>3</sub> measurements, subject to aircraft payload limits. All of the SA aircraft include standard meteorological measurements such as temperature, humidity, and horizontal wind speed and direction. In addition, NOAA may provide airborne flask samples (up to 12 per flight) along with complete analysis, providing discrete samples of dozens of trace gas species to complement the real-time measurements. Information on NOAA flask samples can be found at (<https://www.esrl.noaa.gov/gmd/ccgg/aircraft/sampling.html>).

Interested PIs should submit a proposal (maximum 2 pages) that provides enough detail to allow the SciAv review team to assess project viability and scientific merit. Proposals will be selected based on relevance of topic to current challenges facing the community, feasibility of the scientific plan, the ability to cost share between multiple proposals (e.g. two co-proposals using different measurements collected during the same flight campaign), and available flight hours.

We anticipate that the flight hours offered under this program will be divided among roughly 3-5 research projects per year, which will be selected and reviewed on a rolling basis. Proposal acceptance and execution will be at the discretion of the SciAv review team.

SciAv personnel have accrued thousands of flight hours on various research projects and published findings relevant to greenhouse gas emissions and air quality. The SciAv expert team will be YOUR partner in helping ensure your project is a success, ultimately *lifting your research to new heights*.

Submit your proposal by email to [Safire@scientificaviation.com](mailto:Safire@scientificaviation.com) today!



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## APPLICATION COMPONENTS

To apply to participate in the SAFIRE program, include the following components in your application, and send completed materials to [safire@scientificaviation.com](mailto:safire@scientificaviation.com).

- I. Description of proposed research, including scientific need, novelty of proposed work, time frame, number of hours requested (not including transit hours)... etc.. 2 page maximum, not including references.
- II. If proposing to use new or non-SciAv-owned instruments, submit additional materials detailing relevant instrument specifications (description of operation, flow rate, weight, dimensions, list of any associated hazardous components/chemicals and associated MSDS sheets). No page limit.
- III. Statement of cost-sharing intention, if applicable.

## GUIDELINES

- We are currently accepting applications for work within the contiguous United States only.
- Cost-sharing between two proposals are encouraged. This could include sharing project dates, equipment, and/or relatively close geographic locations.
- Transit hours to approved sites are decided at the discretion of Scientific Aviation, and will be distributed accordingly.