ARISTO Test Program Participation Request

Please provide the following information for each instrument to be tested

* Required

1. **Email address** *

_____

Point of Contact

2. **Name** *

_____

3. **Institution** *

_____

4. **Email** *

_____

5. **Phone number** *

_____

6. **What year ARISTO are you applying for? Next ARISTO is in June 2018 on the GV. You can apply for 2019 or later.** *

_____

_____

_____

_____

_____

Basic Instrument Information

7. **Full Instrument Name** *
   (spell out acronyms)

_____

8. **Instrument Acronym**

_____

9. **Please describe your instrument** *

_____

_____

_____

_____

_____

10. **Which NSF/NCAR aircraft is your preferred testing platform?** *

Mark only one oval.

◯ GV

◯ C130

11. **If your preferred platform is not selected, would you fly your instrument on the alternate platform?** *

Mark only one oval.

◯ Yes

◯ No

12. **How many test flight hours/flights, dedicated to your instrument, are you requesting?** *

_____

13. **Please provide an estimate of your instrument's priority based on the criteria described on the ARISTO webpage.** *

(see https://www.eol.ucar.edu/node/9689 for the priority list)

_____

_____

_____

_____

14. **Please describe your instrument testing needs** *

(e.g., altitude requirements, special maneuvers, additional measurements for evaluation of system performance, airspeed requirements/ limitations)

_____

_____

_____

_____

15. **Please describe the meteorological and/or target conditions needed for testing** *

(e.g., need for polluted/ unpolluted air, target location and airmass type)

16. **Will you instrument be available for the entire period of 1 May - 30 June, 2018 to complete upload, flight tests, and download?** *

Mark only one oval.

   ◯ yes

   ◯ no

17. **How many people will be needed to test the instrument on site, and what are their roles?**

18. **Are there any export restrictions on your instrument or proprietary restrictions on the instrument or data?** *

19. **Has the instrument previously flown on either the NSF/NCAR GV or C-130?** *

Mark only one oval.

   ◯ Yes

   ◯ No

Information Regarding Previous NSF/NCAR GV and C-130

Please complete the questions on this page if the instrument has flown previously on the NSF/NCAR GV or the C-130

20. **When was it last flown?**

Please include the project name and the year

21. **Have any weight, structural, electrical, wiring or optical changes been made, which would require re-certification? ***

_____

_____

_____

_____

_____

Continued Instrument Information

22. **Individual weight of all instrument components ***

_____

23. **Complete size dimensions of all components ***

_____

24. **Rack-mountable 19" panel space required ***
(Note: depth beyond 25" will overhang in back)

_____

25. **Are you supplying your own 19" rack? ***
(Note: racks must survive 9G crash load.)
Mark only one oval.

◯ Yes

◯ No

26. **Hazardous material required ***

_____

27. **Radioactive sources or materials ***

_____

28. **Power required ***
(watts, volts, amps)

_____

29. **Type of power (DC, 60 Hz, 400 Hz) ***

_____

30. **What is the maximum operating (cabin) temperature at which the instrument will function as intended?**

_____

31. **External sensor location (if any)**

_____

Data and Recording Systems

32. **Do you need real-time, in-flight, RAF-measurement, serial data feed (RS-232, RS422)? ***
    Mark only one oval.

    ( ) Yes

    ( ) No

33. **Need IRIG time-code feed? ***
    Mark only one oval.

    ( ) Yes

    ( ) No

34. **Special sensor calibration service required? ***
    Mark only one oval.

    ( ) Yes

    ( ) No

35. **Need full-time operator during flight? ***
    Mark only one oval.

    ( ) Yes

    ( ) No

36. **Number of laptop computers for on-board use
    ***

    _____

37. **Will EOL support be required in preparing the instrument(s) for use on the aircraft (other than inspection, installation and power hook-up)? ***
    Mark only one oval.

    ( ) Yes

    ( ) No

38. **If yes, please specify the lead time**

    _____

39. Will you be using your own recording system? *

Mark only one oval.

◯ Yes

◯ No

40. What additional recording capability is needed?

Please provide details on the number of signals, their characteristics, format, synchronous, fire-wire, ethernet, etc.

_____

_____

_____

_____

_____

41. If nonstandard output formats and/or data rates are required, how often are the measurements needed?

Note: The standard format for processed, RAF output data is net CDF data available for download.

_____

_____

_____

_____

_____

42. Are signal(s) to be recorded on RAF's Aircraft Data System? *

Mark only one oval.

◯ Yes

◯ No   *Skip to question 47.*

Data and Recording Systems - Recording on RAF's Aircraft Data Systems

Please answer these questions if RAF's Aircraft Data Systems will be used to record signals.

43. Signal format (digital, analog, serial): *

Mark only one oval.

◯ Digital

◯ Analog

◯ Serial

44. Full-scale Voltage *

_____

45. Range *

_____

46. **Resolution** *

_____

47. **Sample Rate (1, 5, 250 sps)** *

_____

Please provide the payload ground support needs for user-supplied instrumentation

Preflight needs (On flight days)

48. **Access (hours)** *

_____

49. **Power (hours)** *

_____

50. **Special Support needs**

_____

Postflight needs (On flight days)

51. **Access (hours)** *

_____

52. **Power (hours)** *

_____

53. **Special Support needs**

_____

Routine Maintenance (On non-flight days)

54. **Access (hours)** *

_____

55. **Power (hours)** *

_____

56. **Special Support needs**

_____

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