



**NASA Kentucky EPSCoR
ISS Flight Opportunity 2021
Request for White Papers**

Announcement: RFP-21-003

Release Date: Nov 15, 2021

White Papers Due: Monday, December 6, 2021

Submit via email to nasa@uky.edu

NASA Kentucky

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FAQ and additional information available:

nasa.engr.uky.edu/epscor and
nasa.engr.uky.edu/requests-for-proposals



NASA KY EPSCoR ISS 2021 Request for White Papers
NASA EPSCoR ISS Flight Opportunity

NASA EPSCoR is seeking proposals for an ISS Flight Opportunity available to EPSCoR jurisdictions for projects that are mature enough to design a research experiment or develop research experimental hardware for an ISS flight, with little or no additional NASA funding.

This flight opportunity award over 3 years will enable researchers to achieve performance task objectives of the microgravity flight. ISS research integration, up and down flight to ISS, and any allocated use of NASA equipment will be provided by NASA ISS. No cost-share is required. Six proposals are expected to be selected by NASA.

Please submit a white paper by December 6, 2021 (3 pg limit) using guidelines below if you have interest in submitting a proposal to this opportunity. NASA Kentucky will review the white papers submitted and select one project to develop for submission by NASA Kentucky as Kentucky's entry in the national competition (program limit is 1 per state). The selected proposal will be due to NASA by Jan 14, 2022.

Carefully review the NASA CAN opportunity notice as listed on the NSPIRES website ([NNH22HA003C](#)). Although no cost-share is required, please make note of responsibilities required of the payload developer and consider the following for eligibility considerations:

Successful research proposals are likely to be those that provide sound contributions to both immediate and long-term scientific and technical needs of NASA as explicitly expressed in current NASA documents and communications, as well as contribute to the overall research infrastructure and economic development of the EPSCoR jurisdiction (Kentucky).

Funding: \$85,000 to research team; 3-year award period

Cost-share: None required, however the proposer shall be aware costs such as hardware and/or software development and documentation development support (i.e. data to the ISS) are not covered by this award.

The most competitive proposals will:

- 1) Have minor or no impediment of feasibility
- 2) Be ready to fly in 1-2 years
- 3) Require no or <1 hour of crew intervention per 6 months, beyond installation and removal
- 4) Have less than 500w power requirement
- 5) Fit within equivalent volume of a 3U CubeSat (100mm x 100mm x 340.5mm) or single Express Locker Rack

Eligibility: All institutions of higher education within Kentucky; no citizenship restriction

White paper guidelines – Please address the following in a submission of no more than 3 pages:

- 1) Abstract/Project summary, specifically addressing the benefit of a microgravity environment to the research
- 2) Goal and specific objectives of the envisioned experiment
- 3) Description of experiment hardware
- 4) Description of personnel and partners
- 5) Discussion of development efforts required for flight readiness

Please submit white papers by Monday, December 6, 2021 11:59 ET to:

nasa@uky.edu

Contact NASA KY at 859-323-4542 with questions about this opportunity