National Aeronautics and Space Administration

AERONAUTICS RESEARCH MISSION DIRECTORATE

Grants and Cooperative Agreements Profile

OVERVIEW

The NASA Mission draws support from NASA's world-class capability for aeronautical research founded on a tradition of expertise in aeronautical engineering and core research areas from within the Aeronautics Research Mission Directorate (ARMD). ARMD address national challenges and catalyze economic growth. The Strategic Objective of ARMD is to "Transform aviation through revolutionary technology research, development and transfer". To help achieve this objective, NASA Aeronautics maintains and advances U.S global leadership in aviation through applications of new concepts and technologies pioneered by NASA and developed in partnership with U.S. Industry that leads to transformative improvements in mobility, efficiency, and safety.

AERONAUTICS RESEARCH MISSION DIRECTORATE PROGRAM AREAS:

Advanced Air Vehicles Program (AAVP) – conducts research to meet the Nation's long-term civil aviation needs. The AAVP develops knowledge, technologies, tools, and innovative concepts to enable safe new aircraft that will fly faster, cleaner, and quieter and use fuel far more efficiently than in the past. All major modern U.S. aircraft incorporate NASA research and technology. The pro
gram works in close partnership with academia, industry, and other Government agencies to pioneer fundamental aeronautics research and to mature the most promising technologies and concepts for transition to the user community. For more information, please *see http://www.aeronautics.nasa.gov/programs-aavp.htm*

Airspace Operations and Safety Program (AOSP) – The AOSP performs revolutionary research and technology development to enable the transformation of the National Airspace System (NAS) to safely accommodate a growing number of diverse new vehicles, operational concepts, and missions. The envisioned future NAS must accommodate: a greater diversity of vehicles, operations, missions, and vehicle systems; increased complexity of diverse operations and levels of performance; and a higher density and volume of operations in highly integrated and more heterogenous airspace. AOSP partners with the Federal Aviation Administration and the aviation community to modernize and transform the national air traffic management system. The program is on the leading edge of research on increasingly autonomous aviation and advanced National Airspace management systems and pioneers the integration and analysis of data to support in-time-system wide safety assurance. For more information, please see *http://www.aeronautics.nasa.gov/programs-aosp.htm*

Integrated Aviation Systems Program (IASP) – explores, assesses, and demonstrates the benefits of the most promising technologies at an integrated system level, including in flight. The IASP focuses on bridging the gap between the maturity level of technologies developed through fundamental research and the maturity requirement of infusion into future air vehicles and operational systems. The goal of IASP is to demonstrate integrated concepts and technologies at a maturity level sufficient to reduce risk of implementation in the aviation community. IASP focuses on the rigorous execution of highly complex flight tests and related experiments. For more information, please see *https://www.nasa.gov/aeroresearch/programs/iasp*

Transformative Aeronautics Concepts Program (TACP) – demonstrates initial feasibility of concepts supporting the discovery and development of new transformative solutions supporting the NASA Aeronautics strategy, including exploring opportunities to create a net zero–emissions aviation future. The TACP cultivates cross-cutting concepts and capabilities that inspire new solution paths to aeronautics technical barriers, enable innovative designs, and lead to breakthrough tech-nologies that transform aviation. For more information on TACP, please see *http://www.aeronautics.nasa.gov/programs-tacp.htm*

FAST FACTS

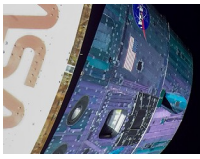
Assistance Listing Number:
43.002

Authorizing Statute:
National Aeronautics and Space Act of 1958

Number of Active Awards: (FY 23)
100

Average Funding Per Award: (FY 23)
$635,116

Applicant Eligibility:
Institutions of Higher Education
Non-Profit Organizations
For-Profit Organizations



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TOTAL AWARD OBLIGATIONS PER FISCAL YEAR

FY 2023	**$63,804,976**
FY 2022	**$73,738,285**
FY 2021	**$52,592,769**
FY 2020	**$40,775,713**
FY 2019	**$53,168,596**

IMPORTANT LINKS & RESOURCES

ARMD Funding Opportunities
https://www.grants.gov
https://www.nasa.gov/aeroresearch/solicitations

Aeronautics Research Mission Directorate
https://www.nasa.gov/aeroresearch

NASA Shared Services Center (NSSC)
https://www.nasa.gov/centers/nssc/grants

NASA Grants Policy and Compliance
https://www.nasa.gov/offices/procurement/gpc

NASA Proposer's Guidebook
https://www.nasa.gov/offices/procurement/gpc/regulations_and_guidance

NASA Grant & Cooperative Agreement Manual
https://www.nasa.gov/offices/procurement/gpc/regulations_and_guidance

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