



# Partnerships & Formulation Office

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National Aeronautics and  
Space Administration



**MARSHALL**  
SPACE FLIGHT CENTER

# Purpose of Partnerships

Support NASA Strategic Objectives

- Encourage Robust Commercial Space Industry

- Address issues in Space Transportation

- Exchange Information to Spur Innovation

Expand Human Knowledge

Advance US Competitiveness

Encourage Cooperation with Other Nations

Disseminate Results of NASA Technical Activities

Facilitate Use of NASA Capabilities

Maintain skills in NASA workforce for future missions



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# 350 Active Partnership Agreements \$70 million in receipts in Fiscal Year 2023

## Examples:

Design, Modeling, and Test of Propulsion Systems

Testing of Systems under Vacuum Conditions

Testing of Materials in Liquid Hydrogen

Building Metal Parts using Additive Manufacturing

Wind Tunnel Testing

Design and Test of Optical Systems

Testing of Large Structures

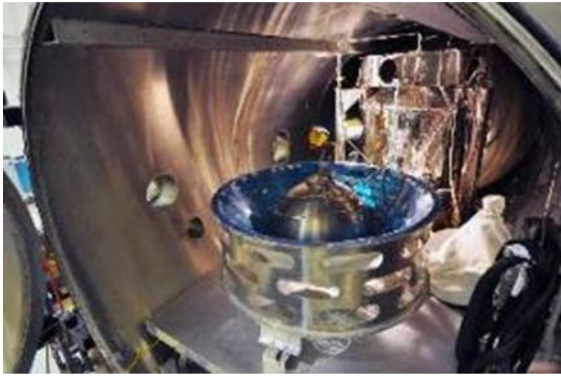


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# Technical Areas of Strategic Emphasis in 2023

## Propulsion Systems Development



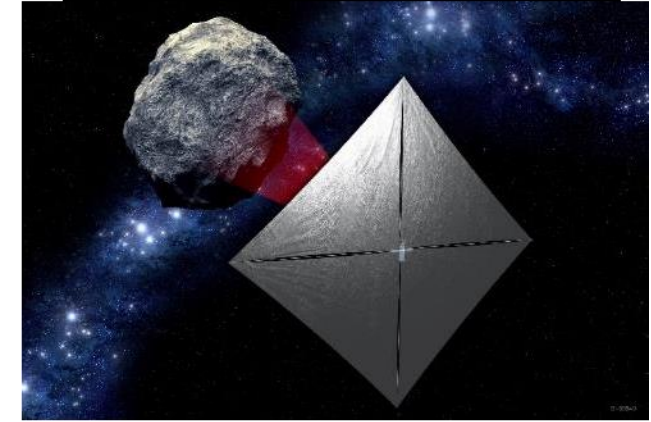
## Test Laboratory



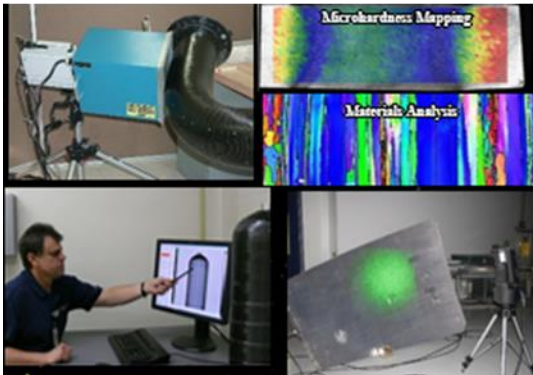
## Mission and Science Operations



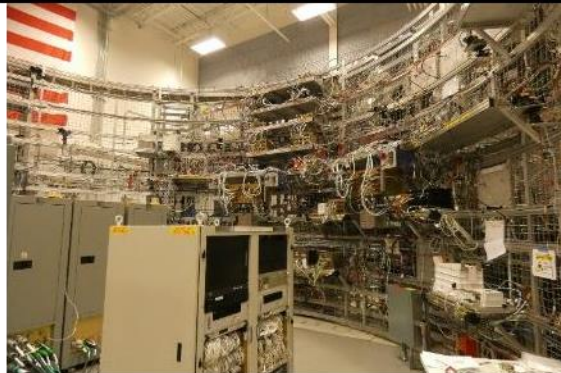
## Advanced Concepts Office



## Materials & Processes Lab



## Space Systems Department



## Spacecraft & Vehicle Systems Department



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# Categories of Partnership Agreements

1. Reimbursable – Partner Pays NASA
2. Non-Reimbursable – Each Party Pays for Their Own Participation
3. Leasing Arrangements – Partner Pays Rent + Demand Services
4. Government Task Agreements – Work done for NASA Contract
5. Umbrella and Annex – Terms and Conditions established for initial work while next phases are defined
6. Letter of Commitment – Agreement will be defined if Partner is selected

